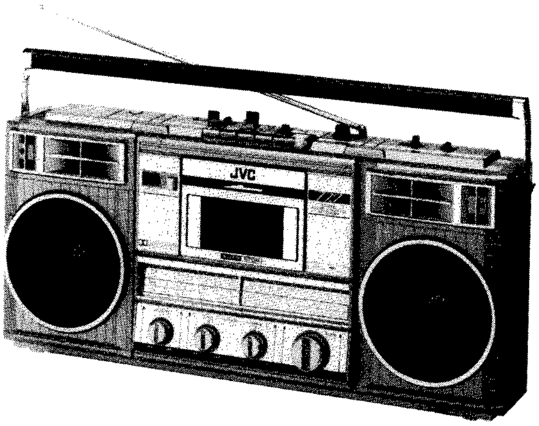
JVC

SERVICE MANUAL

MODEL
RC-770 L/LB/LD/LS
FM-MW-LW-SW
4-BAND STEREO
RADIO CASSETTE
RECORDER



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Specifications

Speakers : 12 cm (3.2 Ω) × 2, 2 cm × 2

Tuner section

Frequency ranges : FM 88 – 108 MHz
MW 540 – 1600 kHz
LW 150 – 350 kHz
SW 6 – 18 MHz
Antennas : Telescopic antenna for FM & SW
Ferrite core antenna for MW & LW

Tape recorder section

Track system : 4-Track 2-Channel stereo
Frequency response : 80 – 12,000 Hz
Wow & flutter : 0.19% (WRMS)
S/N ratio : 54 dB (Normal tape)
Rewind time : Approx. 120 sec. (C-60 cassette)
Fast forward time : Approx. 120 sec. (C-60 cassette)
Head : Permalloy Head for Playback/Recording 2-Gap permalloy Head for erasure
Motor : Electronic DC motor × 1

Amplifier section

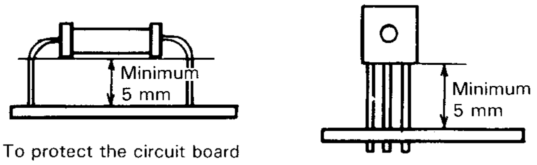
Power output : Max. 6 W (3 W + 3 W) at 3.2 Ω
2.2 W per channel at 10% THD
Input jacks : Mic × 2 (1 mV, −60 dBV, 200 ~ 2 kΩ)
Output jacks : Headphone × 1
Power supply : DC 9 V (6 "R20" batteries)
Car battery (DC 9 V)
AC 240/220/110 V, 50/60 Hz
Power consumption : 10 W (RC-770LB), 9 W (RC-770L/LD)
Dimensions : 520(W) × 239(H) × 136(D) mm
(20-1/2″ × 9-1/2″ × 5-3/8″)
Weight : Approx. 3.2 kg (7.0 lbs)
(without batteries)

Design and specifications subject to change without notice.

Safety Precautions

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠ , be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.
The wiring of the primary side should be wound more than one and half times, then soldered.



To protect the circuit board from burning while in use.

Fig. 1

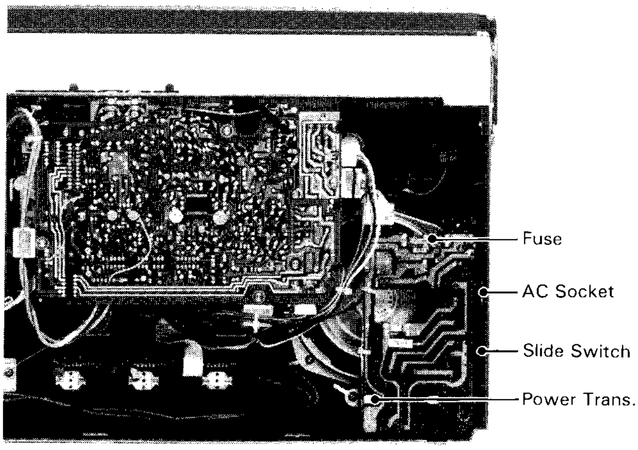


Fig. 2

Locations of Controls

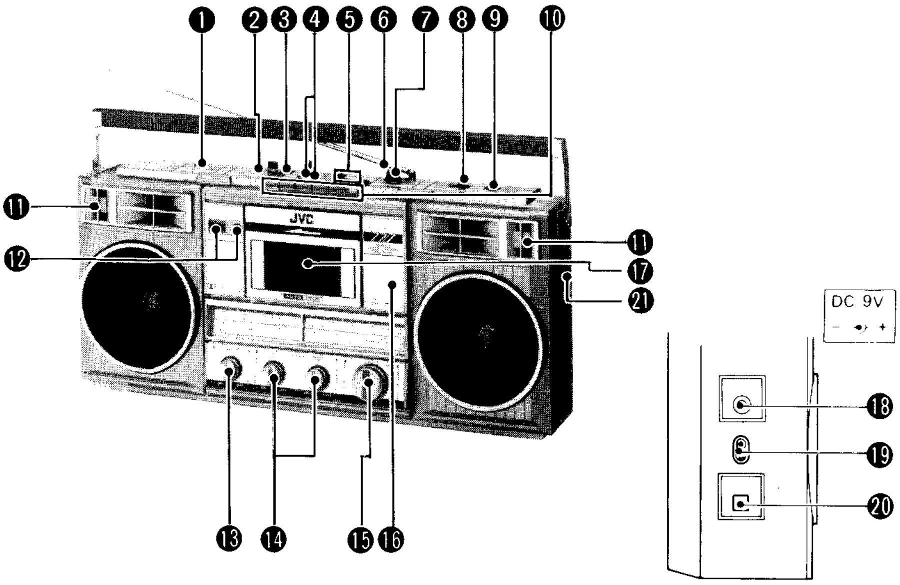


Fig. 3

❶ PHONES jack
❷ BEAT CUT switch
❸ DOLBY B NR switch
❹ MIC jacks
❺ FUNCTION switch (TAPE, RADIO/DIN)
❻ Telescopic antenna
❼ FINE TUNE knob
❽ BAND switch (FM/AM/SW1/SW2)
❾ FM MODE switch
❿ Cassette operation buttons
  - ▮▮ PAUSE button
  - ■ STOP/EJECT button
  - ◀◀ FF button
  - ▶▶ REW button
  - ◀ PLAY button
  - ○ REC button

⓫ Built-in microphones
⓬ Tape counter/reset button
⓭ VOLUME control
⓮ TONE control (BASS/TREBLE)
⓯ Tuning knob
⓰ FM STEREO indicator
⓱ Cassette holder
⓲ DC jack
⓳ AC INPUT jack
⓴ VOLTAGE SELECTOR AC 110 V/220 V/240 V
㉑ DIN Jack (RC-770LD/LS only)

Locations of Main Parts

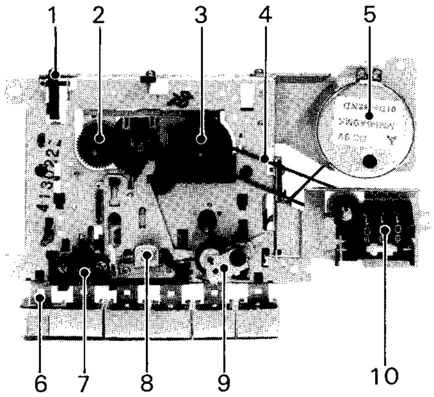


Fig. 4

1. Rec Safety Lever
2. Supply Reel Assembly
3. Take-up Reel Assembly
4. Counter belt
5. DC motor
6. ○ Rec Button
7. Erase Head
8. Rec/P.B. Head
9. Pinch roller Arm Assembly
10. Tape Counter

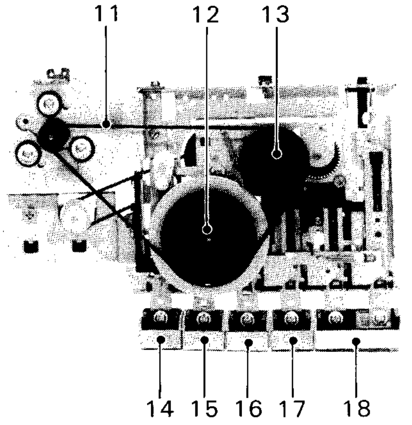


Fig. 5

11. Main Belt
12. Flywheel Assembly
13. R.F. Clutch Assembly
14. II Pause Button
15. ■ Stop/Eject Button
16. ◄◄FF Button
17. ►►Rew Button
18. ◄ Play Button

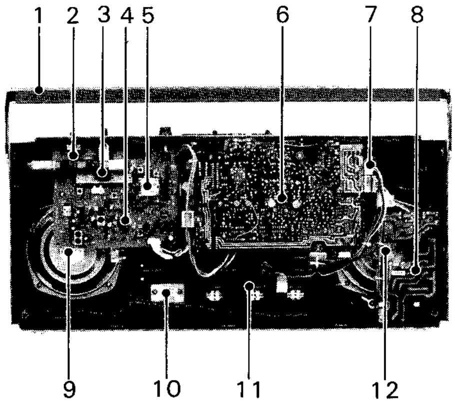
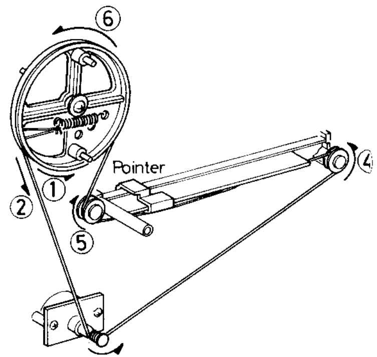


Fig. 6

1. Handle Assembly
2. Ferrite core antenna
3. Band Switch
4. Tuner P.W. Board Assembly
5. Variable Capacitor
6. Amplifier P.W. Board Assembly
7. Tweeter speaker
8. Power supply P.W. Board Assembly
9. Woofer Speaker
10. Tuning shaft
11. Control P.W. Board Assembly
12. Woofer speaker

How to Engage Dial Cord

1. Turn the dial drum fully counterclockwise (to the lowest frequency).
2. Use Kevlar cord (1000 mm long and 0.5 mm in diameter).
3. Install the string in the sequence of the numbers.



③ Wind on the shaft three turns.

Fig. 7

Removal of the Main Parts

Rear Cabinet and Telescopic Antenna (Fig. 8)

1) Remove the Battery cover.
2) Remove 7 screws ① fastening the Rear cabinet.
3) To remove the Telescopic antenna only, remove a screw ② fastening the T. antenna (need not the rear cabinet).

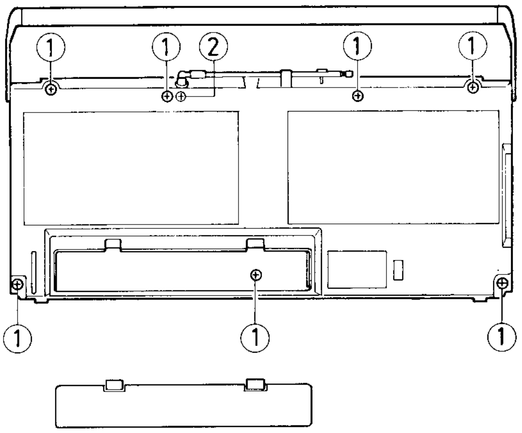
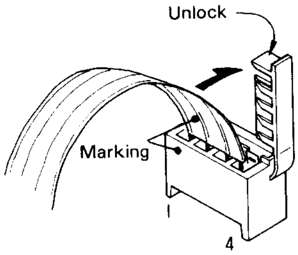


Fig. 8

Tuner P.W. Board (Fig. 9)

1) Remove 5 screws ③ fastening the Tuner P.W. Board.
2) Remove the parallel wire from the tuner P.W. Board.



When removing the parallel wire, it's convenient for connecting then again to do marking both on the wire side and socket side.

Amp P.W. Board (Fig. 9)

1) Remove 4 screws ④ fastening the Amp P.W. Board.
2) Remove the parallel wire on the control P.W. Board.
3) Remove 3 connectors.
4) Cutting the wire band

Power supply P.W. Board (Fig. 9)

Remove 3 screws ⑤

Control P.W. Board (Fig. 9)

1) Remove 3 Volume knobs.
2) Remove 3 nuts ⑥ fastening the control volume.

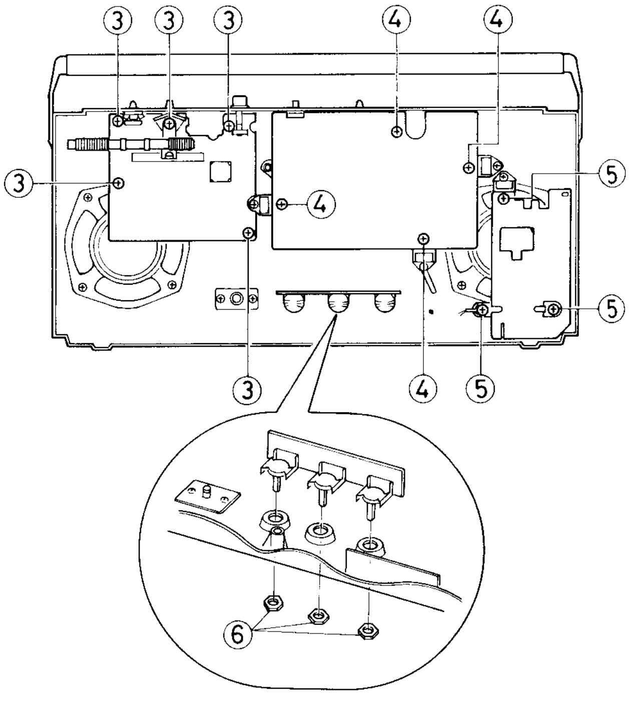


Fig. 9

Mechanism assembly (Fig. 10)

1) Remove 5 screws ⑦ fastening the mechanism ass'y.
2) Open the cassette door.
3) Remove the erase head wire bonded from clamp.

Speaker (Fig. 10)

Remove 8 screws ⑧ and ⑨ fastening the speaker of Lch and Rch.

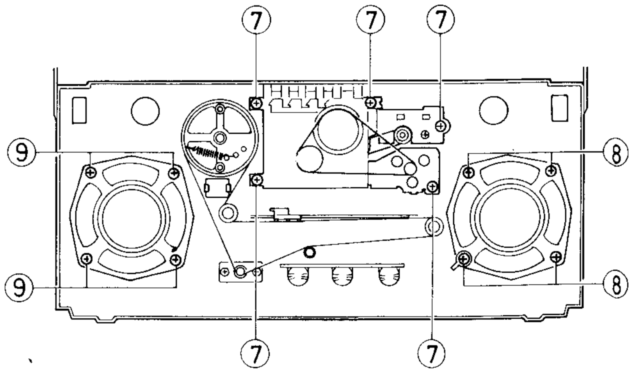


Fig. 10

LED P.W. Board (Fig. 11)

1) Release the hook to open the P.W. Board.
2) The hook should be cut and bonded in place after replacing the LED.

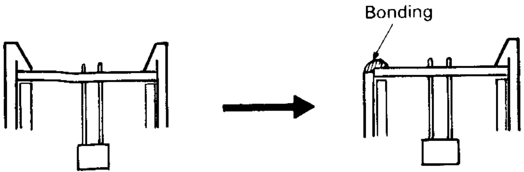


Fig. 11

Mechanism Parts

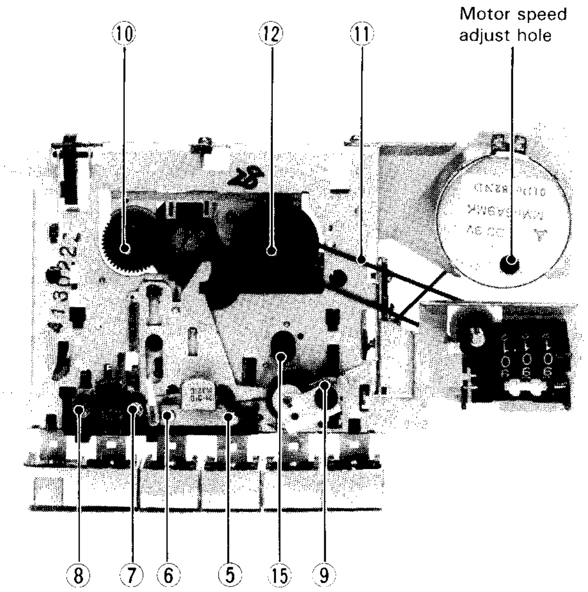


Fig. 12

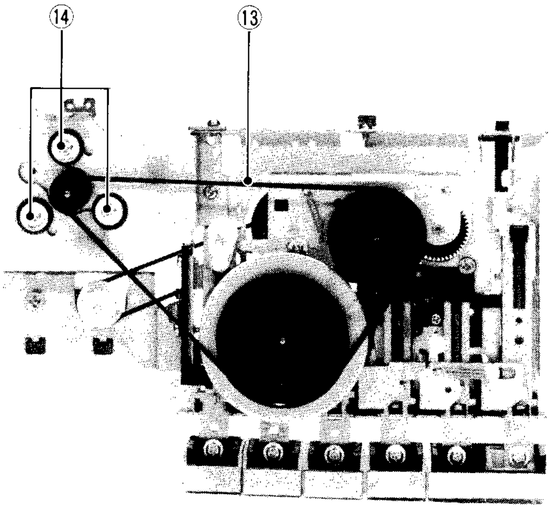


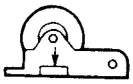
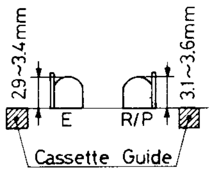
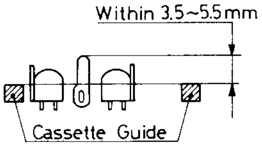
Fig. 13

1) REC/PB head
   Remove a screw ⑤.
   Remove a screw ⑥ for adjustment.
2) Erase head
   Remove a screw ⑦.
   Remove a screw ⑧.
3) Pinch roller assembly
   Remove an E-ring ⑨ holding its assembly. Pull it off from the shaft.
4) Supply reel disc
   Pull out the reel disc stopper ⑩ and pull out its disc from shaft.
   If you broke the stopper, you can use E-ring (REE-1200) in place of stopper.
5) Take-up reel disc
   Remove the counter belt ⑪.
   (Be careful not to stain the counter belt.)
   Pull out the reel disc stopper ⑫ and pull out its disc from shaft.
6) Motor
   Remove the main belt ⑬.
   (Be careful not to stain the main belt.)
   Remove 3 screws ⑭ fastening the motor.
7) Flywheel
   1. Remove the main belt ⑬.
   2. Remove a washer ⑮ fastening the capstan shaft.
   3. Pull off the flywheel.

   Note: When replacing the flywheel, be sure to employ washers and spring.

Adjustment of Cassette Mechanism

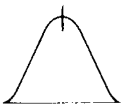
Check the following items after cassette mechanism parts are replaced.

Item	Requirements		Test equipment	Test tape
1. **Source voltage**	Rated voltage: 9.0 V DC Motor operating voltage range: 5.0 – 11 V DC		Regulated power supply	——
2. **Tape speed**	4.8 cm/sec (3,000 Hz) Deviation	−2% +3%	Frequency counter (digital counter)	VTT-656A
3. **Wow & flutter**	Less than 0.35% (RMS)		Wow meter	VTT-656A
4. **Take-up torque**	PLAY	35 – 75 g.cm	During FF and rewind, the idlers, reels and flywheel should not slip against each other when the reels are locked.	——
	FF	60 – 200 g.cm		
	REW	60 – 200 g.cm		
5. **Current consumption (of motor alone)**	PLAY	150 mA or less	DC ammeter	C-60 (take-up torque should be normal when tape is used.)
	FF	250 mA or less		
	REW	250 mA or less		
6. **Pinch roller pressure**	375 ~ 475 g		Tension gauge Pull the pinch roller perpendicularly and read the gauge when the pinch roller just stops. 	——
7. **Head position during PLAY and RECORD**			During PLAY (RECORD) the dimensional requirements given here must be met, and the heads must not contact the cassette case.	Any cassette tape
8. **Auto-stop operation and extent movement**	40 ~ 70 g 		 Tension gauge Pull the Auto stop lever perpendicularly and read the gauge when the mechanism just Auto matically stops. 40 ~ 70 g	Any cassette tape

Tuner Alignment

BASIC CONDITIONS

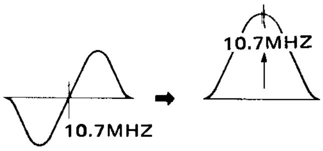
POWER SOURCE OF THE RECEIVER	DC 9 V, AC240/220/110 V, 50/60 Hz.
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.4 V)/3.2 Ω
MODULATION OF SSG	400 Hz. 30%

Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver.	
(1) Power source:	DC 9 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	MW
(4) Volume control:	Minimum gain position
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP4
(2) Tuner output:	Positive side to TP5 Negative side to TP6
1-3 Aligning position:	CFT, T3
1-4 Alignment (Waveform): 	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP3
(2) Tuner output:	Positive side to TP5 Negative side to TP6

NOTE

a) Attach a capacitor (30 pF) and a resistor (30 kΩ) to the positive side cable which shall be led from Sweeper input.

b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper output.

Item	Description
2-3 Aligning position:	a) IF Waveform: T1 b) Discriminate Waveform: T2 ("S" curve waveform)
2-4 Alignment (Waveform):	Adjust the discriminate coil (T2) so that "S" curve waveform may be changed to IF waveform as shown in following figure. 

CF Coller	IF Center F.
Blue	10.67±0.03 MHz
Red	10.70±0.03 MHz
Orenge	10.73±0.03 MHz

Item	Description
	After above, adjust T1 so that max. sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper.
b) Discriminate Waveform:	Adjust the discriminate T2 again so that above symmetrical IF waveform may be changed to balanced "S" curve waveform.

Item	Description
3. AM RF ALIGNMENT	
3-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	Radio
(3) Volume control:	50 mW
(4) Tone control:	Center (Bass, Treble) position
(5) Variable capacitor:	Refer the following list shown in item 3-4.
3-2 Conditions of SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 3-4.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Power output measuring position:	Speaker terminals
3-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	MW	Loop Antenna	520 kHz	Max. capacity	L7
2			1,650 kHz	Min. capacity	TC-8
3			Ajust the above aligning position (L7 & TC-8) repeatedly so that the tuner can be received above frequency range (band width).		
4			620 kHz	to be received 620 kHz	L4
5			1,400 kHz	to be received 1,400 kHz	TC-6
6			Adjust the above aligning position (L4 & TC-6) repeatedly so that the tuner can be obtained the best sensitivity.		
7	LW	Loop Antenna	145 MHz	Max. capacity	L6
8			360 MHz	Min. capacity	TC-7
9			Adjust the above aligning position (L6 & TC-7) repeatedly so that the tuner can be received above frequency range (band width)		
10			160 MHz	to be received 160 MHz	L3
11			350 MHz	to be received 350 MHz	TC-5
12			Adjust the above aligning position (L3 & TC-5) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW	Dummy Antenna	5.8 MHz	Max. capacity	L8
14			18.6 MHz	Min. capacity	TC-4
15			Adjust the above aligning position (L8 & TC-4) repeatedly so that the tuner can be received above frequency range (band width).		
16			6.0 MHz	to be received 6.0 MHz	L5
17			18.0 MHz	to be received 18.0 MHz	TC-3
18			Adjust the above aligning position (L5 & TC-3) repeatedly so that the tuner can be obtained the best sensitivity.		

Item	Description
4. FM RF ALIGNMENT	
4-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	Radio
(3) Band select switch:	FM
(4) Volume control:	50 mW
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Refer the following list shown in item 4-3.
4-2 Condition of FM SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 4-3.
(3) Output level of the attenuator in FM SSG:	The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.
4-3 Alignment:	

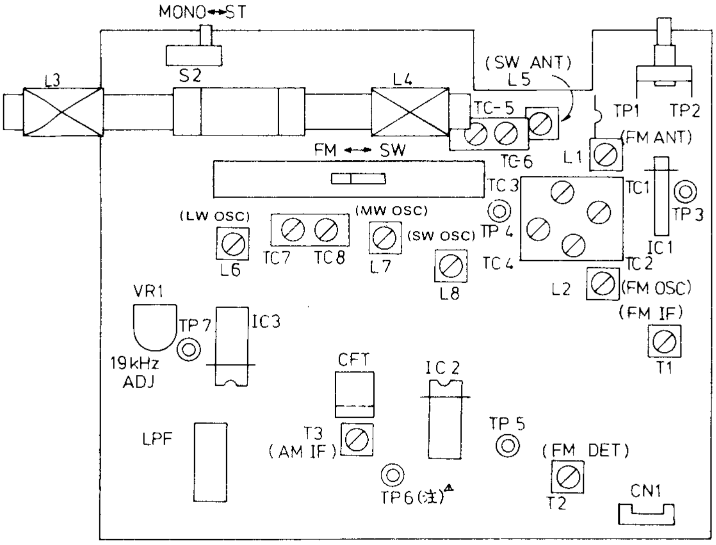
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	FM	Dummy Antenna	87.5 MHz	Max. capacity	L2
2			109.0 MHz	Min. capacity	TC-2
3			Ajust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be received above frequency range (band width).		
4			90 MHz	to be received 90 MHz	L1
5			108 MHz	to be received 108 MHz	TC-1
6			Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be obtained the best sensitivity.		

FM MPX Alignment

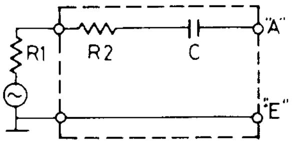
19 kHz Alignment (Regular Method)

1. Connect a frequency counter to the test point TP7 (earth = TP6).
2. Supply the monaural signal (98 MHz, 60 dB) across the test points TP1 and TP2.
3. Adjust the variable resistor VR1 so that the frequency becomes 19 kHz ± 100 Hz.

Parts Arrangement for Alignment


MONO↔ST
S2
L3
L4
(SW ANT)
L5
TC-5
TP1
TP2
(FM ANT)
FM ↔ SW
TC-6
L1
TC 3
TC1
TP 3
(LW OSC)
(MW OSC)
(SW OSC)
TP 4
TC7
TC8
L6
L7
L8
TC 4
IC1
TC 2
L2
(FM OSC)
(FM IF)
VR1
TP 7
IC3
19 kHz
ADJ
T1
CFT
IC 2
LPF
T3
(AM IF)
TP 5
(FM DET)
TP6 (注)
T2
CN1

Dummy Antenna



R1 + R2 = 80 Ω
C = 10 pF
R1: Output impedance of S.S.G.

Adjustment of Cassette Recorder Amplifier

Amp. P.W. Board (Pattern side)

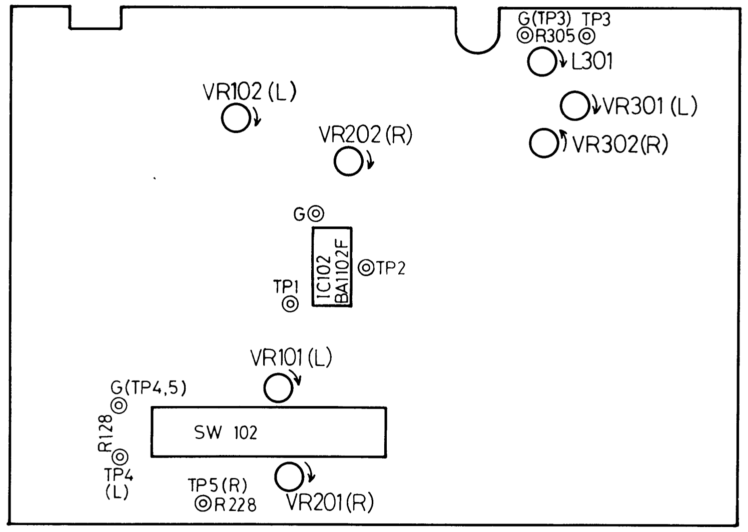
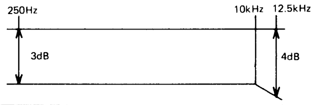
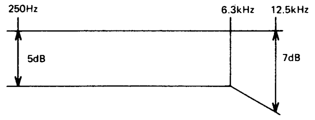
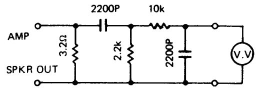

G(TP3) TP3
R305
L301
VR102 (L)
VR202 (R)
VR301 (L)
VR302(R)
G
IC102 BA1102F
TP1
TP2
VR101 (L)
G(TP4,5)
R128
SW 102
TP4 (L)
TP5(R)
R228
VR201(R)

Fig. 15

Model RC-770 L/LB/LD/LS			Cassette section
Source voltage	DC : 9 V, AC : 240/220/110 V	Load	0 dBS (0.775 V)/3.2Ω
		Input	MIC. −58 dBS TUNER −29 dBS
Step	**Item**	**Adjustment method**	
1	Speed and wow/flutter	When measured by wow/flutter meter with test tape VTT-656 (3000 Hz) or its equivalent, wow/flutter should be within 0.35% RMS. At this time, tape speed accuracy should be within +15 Hz, −15 Hz at 3020 Hz.	
2	Azimuth	Play back test tape VTT-658, then adjust azimuth so that output at TP-1 is maximized.	
3	PB level	Playback test tape VTT-664, then adjust VR101 and VR201 so that outputs at TP-1 and TP-2 become −21±0.5 dBs.	
4	PB frequency response (checking)	Use test tape VTT675N or the equivalent. The values should be as follows at 0 dB and 1000 Hz. 	
5	Frequency of bias current	Cut off the TUNER input and put the unit into REC mode with BEAT CUT switch at "1", then adjust L301 so that frequency of bias current at TP-4 becomes 67.5 kHz ±0.1 kHz.	
6	Magnitude of bias current	Cut off the TUNER input, then adjust VR301 and VR302 so that Rch and Lch head currents become 420 μA (voltages at TP-4 across R128 10 Ω at TP-5 across R228 10 Ω are 4.2 mV).	
7	REC/PB level	Apply input at −38 dBs from TUNER, then adjust VR102 and VR202 so that REC and PB levels at TP-1 and TP-2 are equal (within ±1 dB).	
8	REC/PB frequency response (checking)	Record the following specified signals at input level of −20 dB and play back the recording. Then, the respective deviations in output level from 1000 Hz reference should be within the following ranges. Normal tape : 	
9	Dolby effect	Put the unit into PLAY mode without cassette, then check that output difference between Dolby ON and OFF with the following filter is 9 dB ±2 dB.  AMP SPKR OUT 3.2Ω 2200P 2.2k 10k 2200P V.V	

Block Diagram

Tuner Signal Diagram

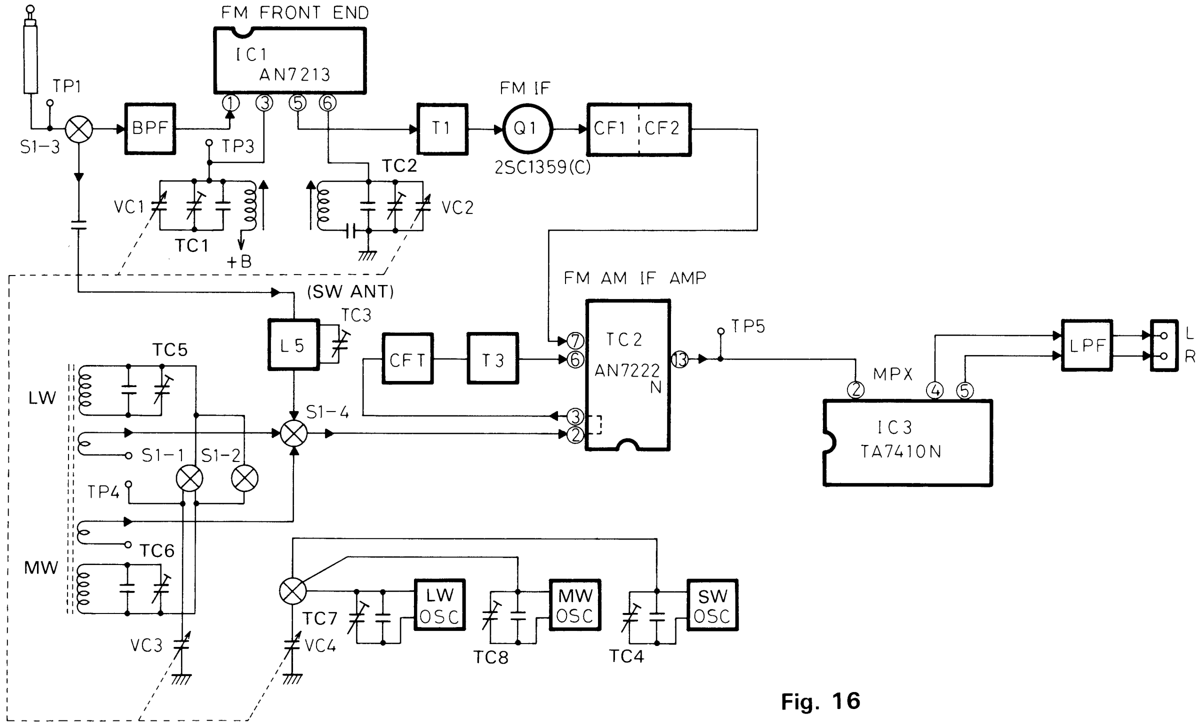

FM FRONT END
IC1
AN7213
TP1
S1-3
BPF
TP3
T1
FM IF
Q1
2SC1359(C)
CF1
CF2
TC2
VC1
TC1
+B
VC2
(SW ANT)
TC3
L5
FM AM IF AMP
TC2
AN7222
N
TP5
MPX
IC3
TA7410N
LPF
L
R
CFT
T3
TC5
LW
S1-4
S1-1
S1-2
TP4
TC6
MW
VC3
TC7
VC4
LW OSC
MW OSC
SW OSC
TC8
TC4

Fig. 16

Recording System Signal Diagram

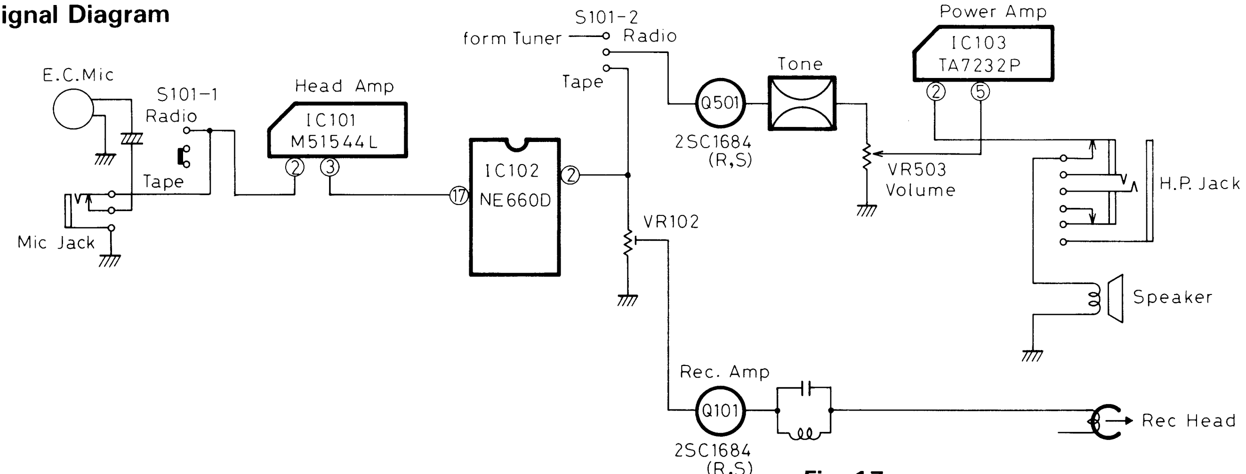

E.C.Mic
S101-1
Radio
Tape
Mic Jack
Head Amp
IC101
M51544L
IC102
NE660D
S101-2
form Tuner
Radio
Tape
Q501
2SC1684
(R,S)
Tone
Power Amp
IC103
TA7232P
VR503
Volume
H.P. Jack
Speaker
VR102
Rec. Amp
Q101
2SC1684
(R,S)
Rec Head

Fig. 17

Play Back System Signal Diagram

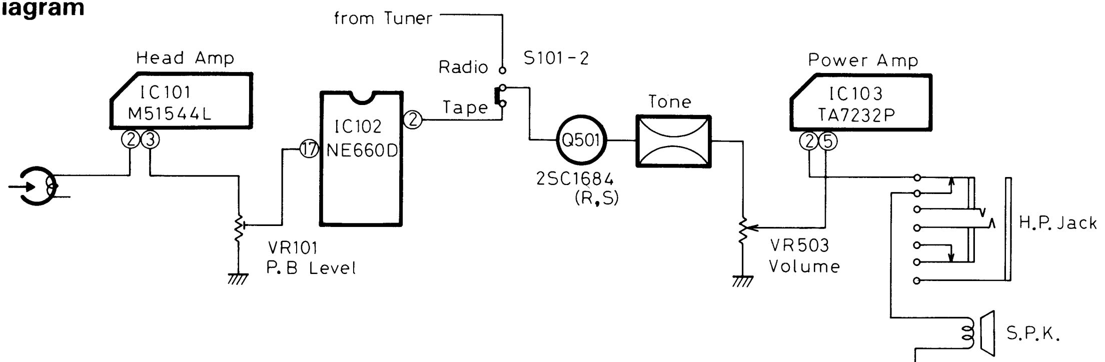
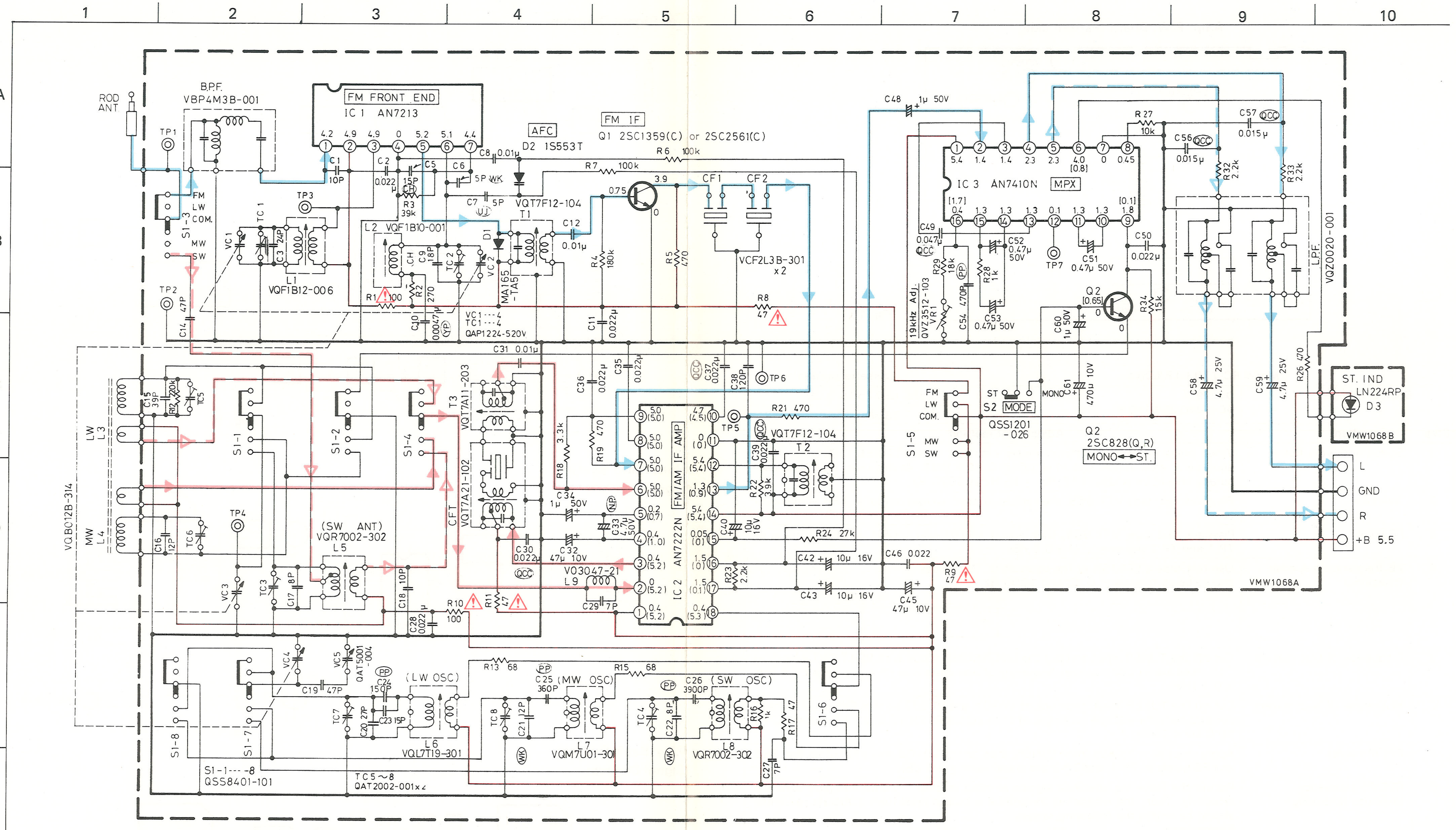

from Tuner
Radio
S101-2
Tape
Head Amp
IC101
M51544L
IC102
NE660D
VR101
P.B Level
Q501
2SC1684
(R,S)
Tone
Power Amp
IC103
TA7232P
VR503
Volume
H.P. Jack
S.P.K.

Fig. 18

Standard Schematic Diagram of RC-770L/LB (Tuner Circuit)

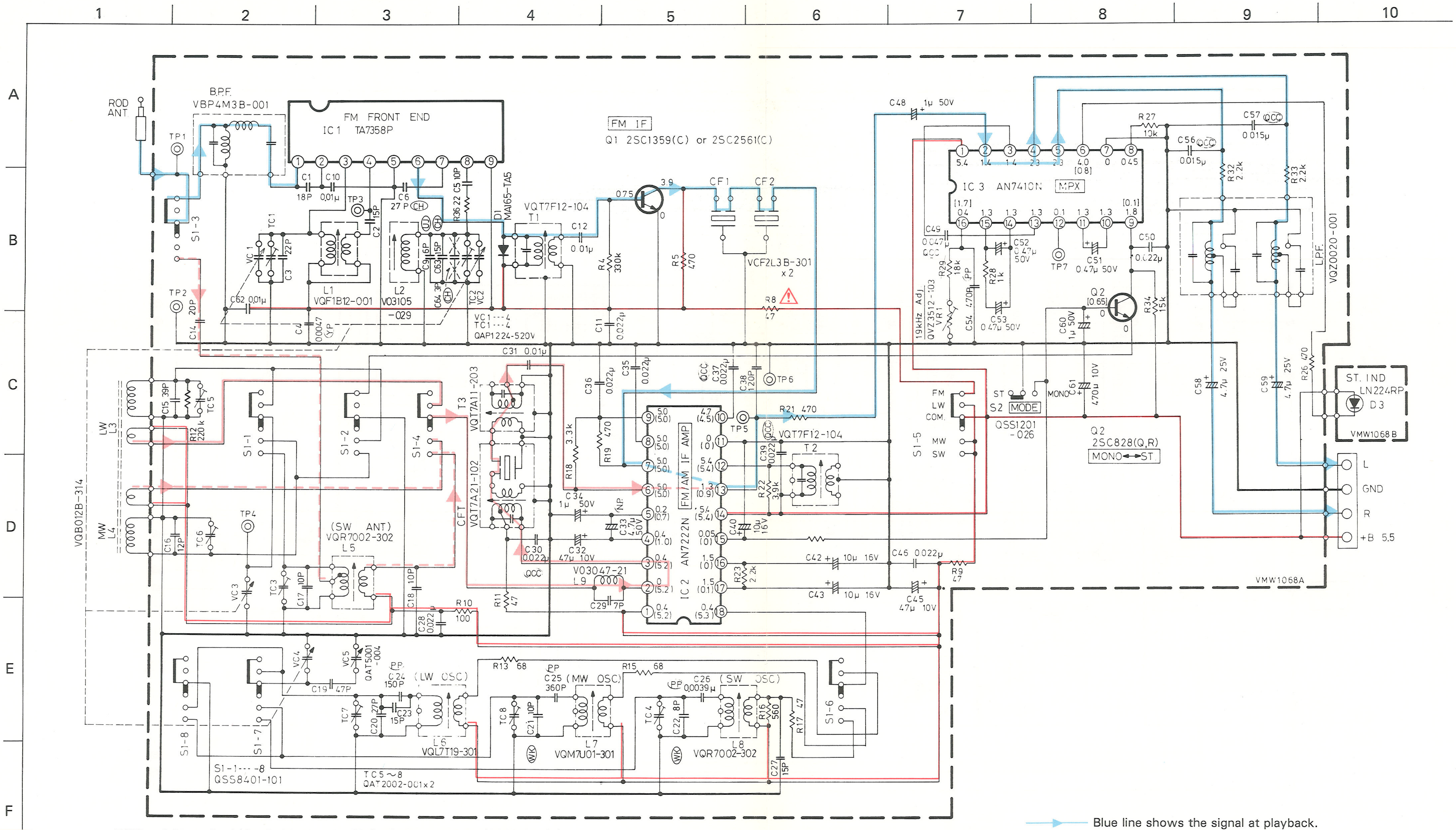

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
ROD ANT
B.P.F. VBP4M3B-001
TP1
TP2
TP3
TP4
TP5
TP6
TP7
FM FRONT END
IC 1 AN7213
AFC
D2 1S553T
FM IF
Q1 2SC1359(C) or 2SC2561(C)
CF1
CF2
VCF2L3B-301 x2
L1 VQF1B12-006
L2 VQF1B10-001
T1 VQT7F12-104
VC1···4
TC1···4
QAP1224-520V
MA165-TA5
IC 3 AN7410N
MPX
19kHz Adj. QVZ3512-103 VR1
Q2 2SC828(Q,R)
MONO←→ST.
S2 MODE
QSS1201-026
LPF VQZ0020-001
ST. IND LN224RP D3
VMW1068B
VMW1068A
L
GND
R
+B 5.5
FM/AM IF AMP
IC 2 AN7222N
T2 VQT7F12-104
T3 VQT7A11-203
CFT VQT7A21-102
(SW ANT) VQR7002-302 L5
L9 VO3047-21
LW L3
MW L4
VQB012B-314
S1-1
S1-2
S1-3
S1-4
S1-5
S1-6
S1-7
S1-8
(LW OSC)
L6 VQL7T19-301
C25 (MW OSC)
L7 VQM7U01-301
C26 (SW OSC)
L8 VQR7002-302
S1-1···-8 QSS8401-101
TC5~8 QAT2002-001×4
QAT5001-004

NOTE.
1. S1-1~S1-8(BAND SELECT SWITCH) IS FM POSITION.(QSS8401-101)
2. S2 (MONAURAL-STEREO SWITCH) IS STEREO POSITION.(QSS1201-026)
3. VOLTAGES ARE MEASURED WITH NO SIGNAL USING ELECTRONIC VOLT METER AT FM POSITION,
( ) VALUES AT AM (LW/MW/SW) POSITION.
4. [ ] VALUES AT FM POSITION WHEN 60dBμV STEREO SIGNAL IS SUPPLIED TO ANTENNA TERMINAL(TP1,2).
5. LAST NO. R34, C61, L9, Q2
BLANK NO. R14, 20, 25, 30, 31
C4, 13, 41, 44, 47, 55
6 THE RATING OF ALL REGISTOR IS 1/6W

─▶─	Blue line shows the signal at playback.
─▶─	Red line shows the signal at recording.
─	+B circuit
⚠	Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 19

Standard Schematic Diagram of RC-770LD/LS (Tuner Circuit)

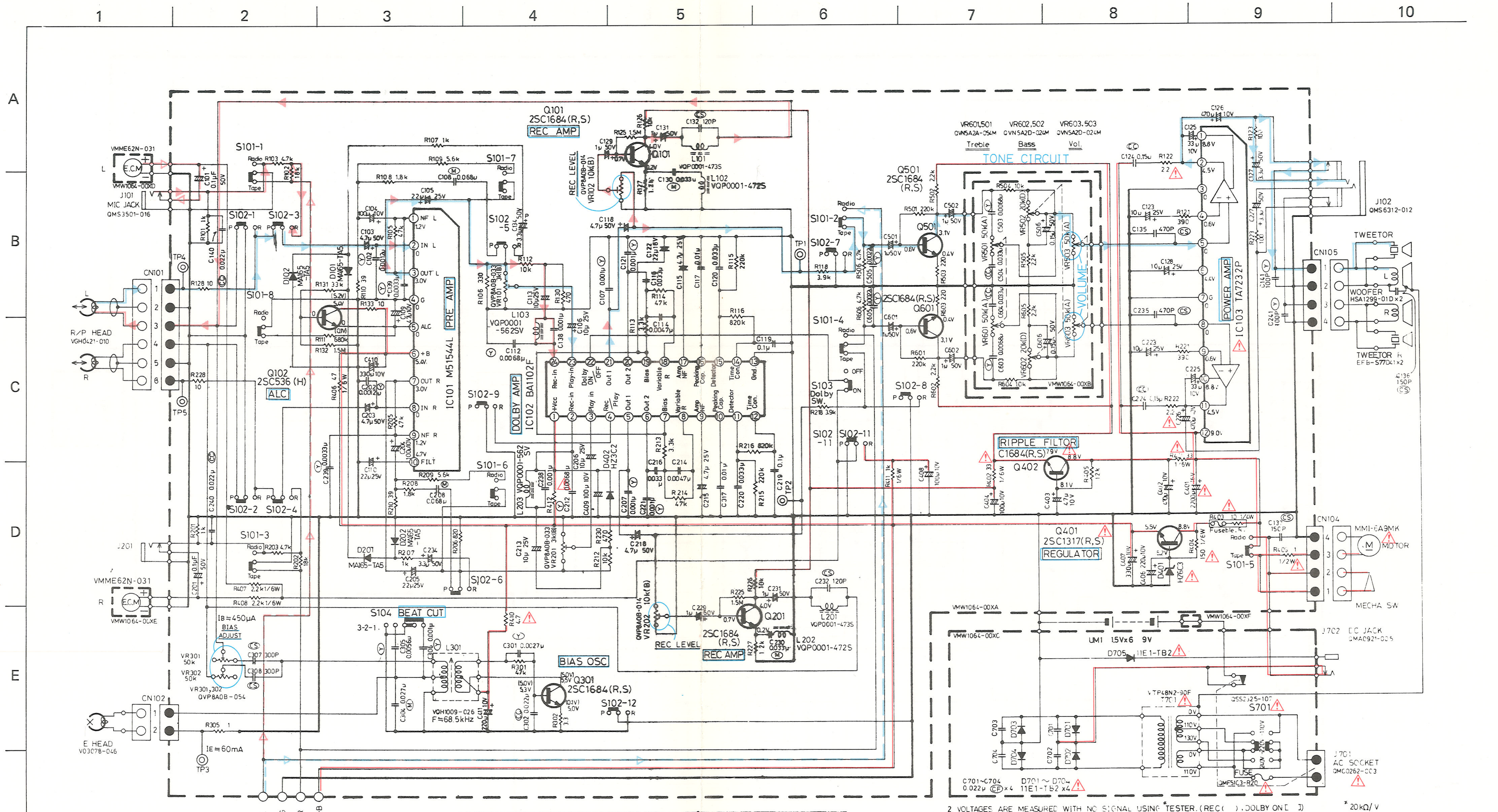

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
ROD ANT
B.P.F. VBP4M3B-001
TP1
TP2
TP3
TP4
TP5
TP6
TP7
FM FRONT END
IC1 TA7358P
C1 18P
C10 0.01μ
C6 27P
C5 10P
R36 22
D1 MA165-TA5
TC1
VC1
C3 22P
C2 15P
L1 VQF1B12-001
L2 V03105-029
C62 0.01μ
C14 20P
C4 0.0047 YP
VC1…4 TC1…4 QAP1224-520V
FM IF
Q1 2SC1359(C) or 2SC2561(C)
VQT7F12-104 T1
C12 0.01μ
R4 330k
R5 470
CF1
CF2
VCF2L3B-301 x2
R8 47
C11 0.022μ
C31 0.01μ
C36 0.022μ
C35 0.022μ
C37 0.022μ
C38 120P
T3 VQT7A11-203
CFT VQT7A21-102
R18 3.3k
R19 470
C34 1μ 50V
C33 47μ 50V
C30 0.022μ
C32 47μ 10V
V03047-21 L9
C29 7P
R10 100
R11 47
C28 0.022μ
C18 10P
IC2 AN7222N FM/AM IF AMP
R21 470
VQT7F12-104 T2
C39 0.022μ
R22 3.9k
C40 10μ 16V
C42 10μ 16V
C43 10μ 16V
C46 0.022μ
C45 47μ 10V
R23 2.2k
R9 47
C48 1μ 50V
IC3 AN7410N MPX
R27 10k
C57 0.015μ
C56 0.015μ
R32 2.2k
R33 2.2k
C49 0.047
R29 18k
VR1 QVZ3512-103 19kHz Adj.
C54 470P
R28 1k
C52 0.47μ 50V
C53 0.47μ 50V
C51 0.47μ 50V
C50 0.22μ
Q2
R34 15k
C60 1μ 50V
C61 470μ 10V
C58 4.7μ 25V
C59 4.7μ 25V
R26 470
L.P.F. VQZ0020-001
ST. IND LN224RP D3
VMW1068B
L
GND
R
+B 5.5
VMW1068A
FM LW COM. MW SW
S1-5
ST S2 MODE MONO
QSS1201-026
Q2 2SC828(Q,R) MONO↔ST
VQB012B-314
LW L3
MW L4
C15 39P
R12 220k
TC5
C16 12P
TC6
S1-1
S1-2
S1-4
(SW ANT) VQR7002-302 L5
VC3
TC3
C17 10P
VC4
VC5
QAT5001-004
C19 47P
C24 150P (LW OSC)
C20 27P
C23 15P
TC7
L6 VQL7T19-301
R13 68
C25 360P (MW OSC)
TC8
C21 10P
L7 VQM7U01-301
R15 68
C26 0.0039μ (SW OSC)
TC4
C22 8P
R16 560
R17 47
L8 VQR7002-302
C27 15P
S1-6
S1-7
S1-8
S1-1…-8 QSS8401-101
TC5~8 QAT2002-001x2

NOTE
1. S1-1~S1-8 (BAND SELECT SWITCH) IS FM POSITION. (QSS8401-101)
2. S2 (MONAURAL-STEREO SWITCH) IS STEREO POSITION. (QSS1201-026)
3. VOLTAGES ARE MEASURED WITH NO SIGNAL USING ELECTRONIC VOLT METER AT FM POSITION.
( ) VALUES AT AM (LW / MW / SW) POSITION.
4. [ ] VALUES AT FM POSITION WHEN 60dBμV STEREO SIGNAL IS SUPPLIED TO ANTENNA TERMINAL (TP1, 2).
5. LAST NO. R34, C64, L9, Q2
BLANK NO. R1, 2, 3, 6, 7, 20, 25, 30, 31
C7, 8, 23, 41, 44, 47, 55
6. THE RATING OF ALL RESISTOR IS 1/6 W.

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B circuit
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 20

Standard Schematic Diagram of RC-770L/LB (Amplifier Circuit)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
Q101 2SC1684(R,S) REC AMP
REC LEVEL QVP8A08-014 VR102 10K(B)
L101 VQP0001-473S
L102 VQP0001-472S
S101-1
S101-7
S101-8
S101-3
S101-6
S102-1
S102-3
S102-2
S102-4
S102-5
S102-9
S102-6
J101 MIC JACK QMS3501-016
VMME62N-031
E.C.M
CN101
R/P HEAD VGH0421-010
TP4
TP5
Q102 2SC536(H) ALC
IC101 M51544L PRE AMP
IC102 BA1102F DOLBY AMP
L103 VQP0001-562SV
L203 VQP0001-562SV
D101 MA165-TA5
D102 MA165-TA5
D201 MA165-TA5
D202 MA165-TA5
D402 HZ3C2
TP1
TP2
S101-2
S102-7
S101-4
S103 Dolby SW.
S102-8
S102-11
Q501 2SC1684(R,S)
Q601 2SC1684(R,S)
VR601,501 QVN5A2A-05CM Treble
VR602,502 QVN5A2D-024M Bass
VR603,503 QVN5A2D-024M Vol.
TONE CIRCUIT
VOLUME
VMW1064-00XB
IC103 TA7232P POWER AMP
J102 QMS6312-012
TWEETOR
WOOFER HSA1299-010×2
TWEETOR EFB-S77D1×2
CN105
RIPPLE FILTOR
Q402 2SC1684(R,S)
Q401 2SC1317(R,S) REGULATOR
S101-5
CN104
MMI-6A9MK MOTOR
MECHA SW
J702 DC JACK QMA0921-005
UM1 1.5V×6 9V
D705 11E1-TB2
T701
S701
J701 AC SOCKET QMC0262-003
FUSE QMF51C3-R20
C701~C704 0.022μ CF ×4
D701 ~ D704 11E1-TB2 ×4
Q201 2SC1684 (R,S) REC AMP
REC LEVEL QVP8A09-014 VR202 10K(B)
L201 VQP0001-473S
L202 VQP0001-472S
S104 BEAT CUT 3-2-1
L301
VQH1009-026 F≒68.5kHz
BIAS OSC
Q301 2SC1684(R,S)
S102-12
IB≒450μA BIAS ADJUST
VR301 50k
VR302 50k
VR301,302 QVP8A08-054
CN102
E HEAD V03078-046
TP3
IE≒60mA
VMW1064-00XD
VMW1064-00XE
VMW1064-00XA
VMW1064-00XC
VMW1064-00XF
L
G
R
+B

-→ Red line shows the signal at recording (EXT. MIC)

-▷ Red line shows the signal at recording (EC. MIC)

--▷ Red line shows the signal at Radio recording

-→ Blue line shows the signal at playback

--▷ Blue line shows the signal at Radio

⚠ Parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

1.

	LAST NO.	BLANK NO.	LAST NO.	BLANK NO.
AMP Ⓛ (PRE, DOLBY POWER) Ⓡ	C141 C241	C106.107.121.122.133 C206.207.208.209.210.211.221 222.228.233,236,237	R133 R230	R104,115,119,120,124,129 R204,211,215,217,219,220,224, 229
BIAS OSC	C308	C303	R305	R303,304
+B LINE	C411	C405 409	R411	
AMP Ⓛ (TONE CON.) Ⓡ	C506 C606		R506 R606	
POWER SUPPLY	C704			

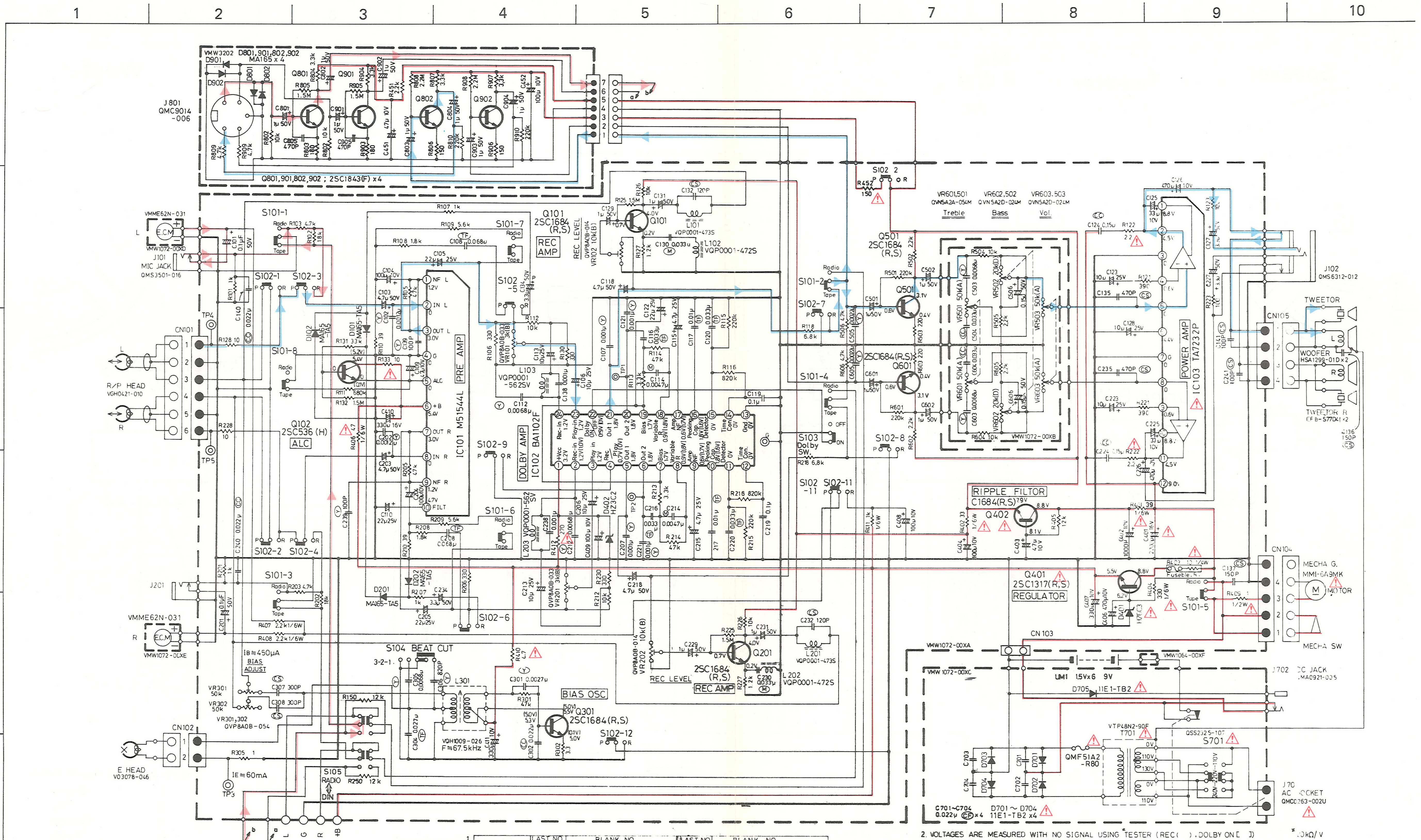
Fig. 21

2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING *TESTER. (REC( ), DOLBY ON[ ])
REFERENCE POINT IS PIN 7 OF IC103

*20kΩ/V

3. S101-1 ~ -8 RADIO - TAPE (TAPE)
S102-1 ~ -12 REC - PLAY (PLAY)
S103 DOLBY ON-OFF (ON)
S104 BEAT CUT 1-2-3 (1)

Standard Schematic Diagram of RC-770LD/LS (Amplifier Circuit)


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
J801 QMC9014-006
Q801,901,802,902 ; 2SC1843(F) x4
VMW3202 D801,901,802,902 MA165 x 4
VMME62N-031
J101 MIC JACK QMS3501-016
R/P HEAD VGH0421-010
CN101
TP4
TP5
S101-1
S102-1
S102-3
S101-8
Q102 2SC536 (H)
ALC
IC101 M51544L
PRE AMP
S101-7
Q101 2SC1684 (R,S)
REC AMP
REC LEVEL
VR102 10k(B)
L101 VQP0001-473S
L102 VQP0001-472S
L103 VQP0001-562SV
S102-5
IC102 BA1102
DOLBY AMP
S102-9
S101-6
S102-2
S102-4
S101-3
J201
VMME62N-031
S102-6
S104 BEAT CUT
BIAS ADJUST
BIAS OSC
Q301 2SC1684(R,S)
VQH1009-026 F≒67.5kHz
S102-12
VR301 50k
VR302 50k
VR301,302 QVP8A0B-054
CN102
E HEAD V03078-046
TP3
S105 RADIO DIN
Q201 2SC1684 (R,S)
REC AMP
REC LEVEL
VR202 10k(B)
L201 VQP0001-473S
L202 VQP0001-472S
S102 2
S101-2
S102-7
S101-4
S103 Dolby SW
S102-8
S102-11
Q501 2SC1684 (R,S)
Q601 2SC1684(R,S)
VR601,501 QVN5A2A-05M
VR602,502 QVN5A2D-02UM
VR603,503 QVN5A2D-024M
Treble
Bass
Vol.
VMW1072-00XB
IC103 TA7232P
POWER AMP
RIPPLE FILTOR
C1684(R,S)
Q402
Q401 2SC1317(R,S)
REGULATOR
S101-5
J102 QMS6312-012
CN105
TWEETOR
WOOFER HSA1299-01D x2
TWEETOR CFB-S7704 x2
CN104
MECHA G.
MOTOR
MECHA SW
CN103
VMW1072-00XA
VMW1064-00XF
UM1 1.5Vx6 9V
D705 11E1-TB2
J702 DC JACK QMA0921-005
VTP48N2-90F T701
QMF51A2-R80
QSS2325-107
S701
J70 AC SOCKET QMC0263-002U
C701~C704 0.022μ CF x4
D701~D704 11E1-TB2 x4
b
L
G
R
+B

	LAST NO.	BLANK NO	LAST NO.	BLANK NO.
AMP (PRE, DOLBY POWER) Ⓛ Ⓡ	C141 C241	C 111 , 133 C 209, 210, 222, 228, 233, 236, 237.	R150 R250	R104 117 ,119,120 .124,129 R 204 ,211, ,217, 219, 220, 224, 229 231, 232, 233,
BIAS OSC	C308	C303	R305	R303, 304
+B LINE	C411	C405	R412	
AMP (TONE CON.) Ⓛ Ⓡ	C 506 C 606		R506 R606	
POWER SUPPLY	C 704			

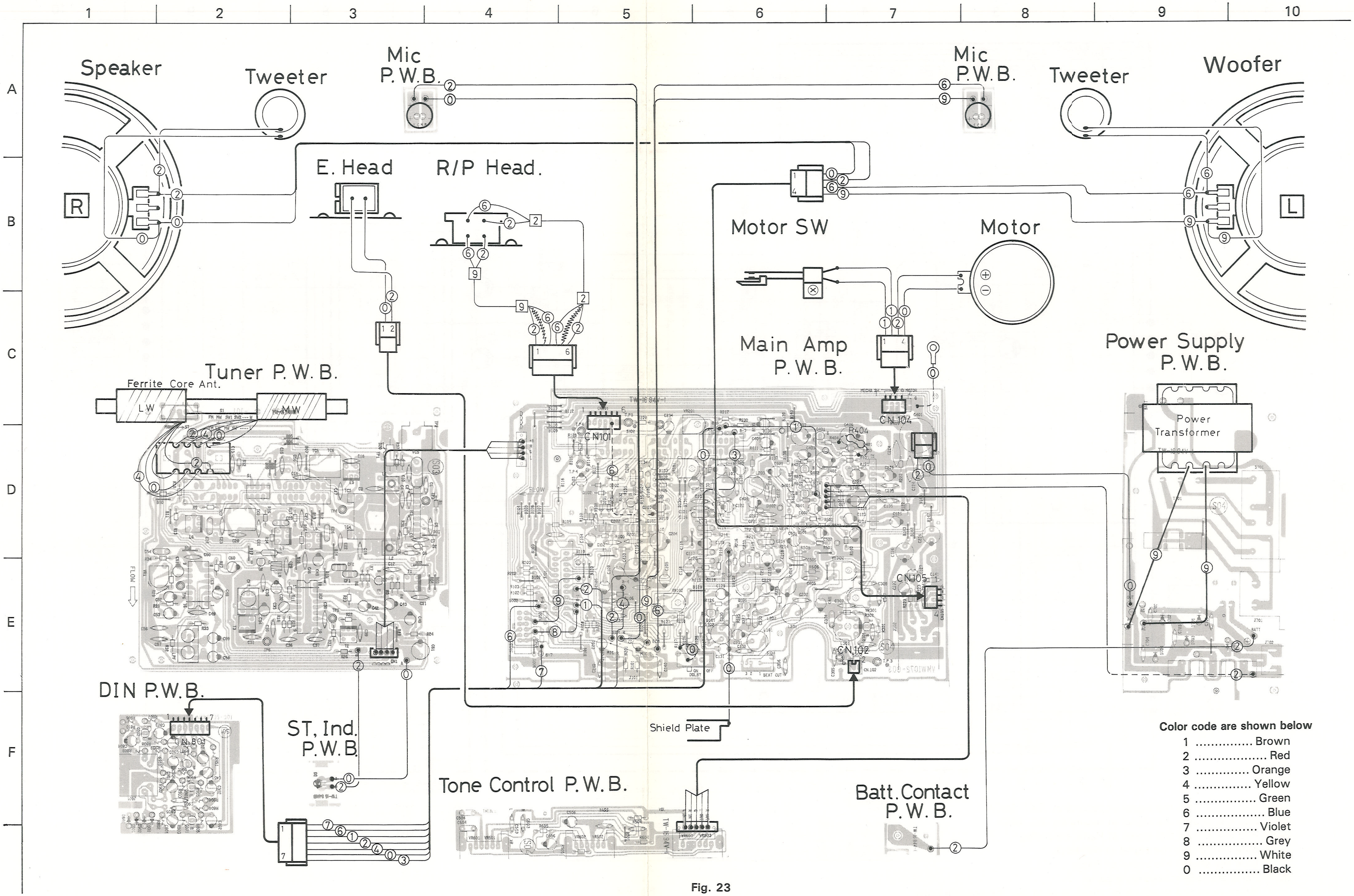
2. VOLTAGES ARE MEASURED WITH NO SIGNAL USING *TESTER (REC( ), DOLBY ON[ ]) *20kΩ/V
REFERENCE POINT IS PIN 7 OF IC103

3. S101-1 ~ -8 RADIO-TAPE(TAPE) : QSL 8210-104
S102-1 ~ -12 REC-PLAY(PLAY) : QSSC201-106
S103 DOLBY ON-OFF (ON) : QSS1201 - 026
S104 BEAT CUT 1-2-3 (1) : QSS1301 - 101G
S105 RADIO/DIN(RADIO) : QST3101 - V04

——▶ Red line shows the signal at recording (EXT. MIC)
——▷ Red line shows the signal at recording (EC. MIC)
- - -▷ Red line shows the signal at Radio recording
——▶ Blue line shows the signal at playback
- - -▶ Blue line shows the signal at Radio
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 22

Wiring Connection


1
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7
8
9
10
A
B
C
D
E
F
Speaker
Tweeter
Mic P.W.B.
Mic P.W.B.
Tweeter
Woofer
R
L
E. Head
R/P Head.
Motor SW
Motor
Main Amp P.W.B.
Power Supply P.W.B.
Power Transformer
Tuner P.W.B.
Ferrite Core Ant.
LW
MW
CN101
CN104
CN105
CN102
DIN P.W.B.
CN801
ST, Ind. P.W.B.
Tone Control P.W.B.
Shield Plate
Batt. Contact P.W.B.

Color code are shown below

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White
0	Black

Fig. 23

Amplifier P.W. Board Parts and Parts List

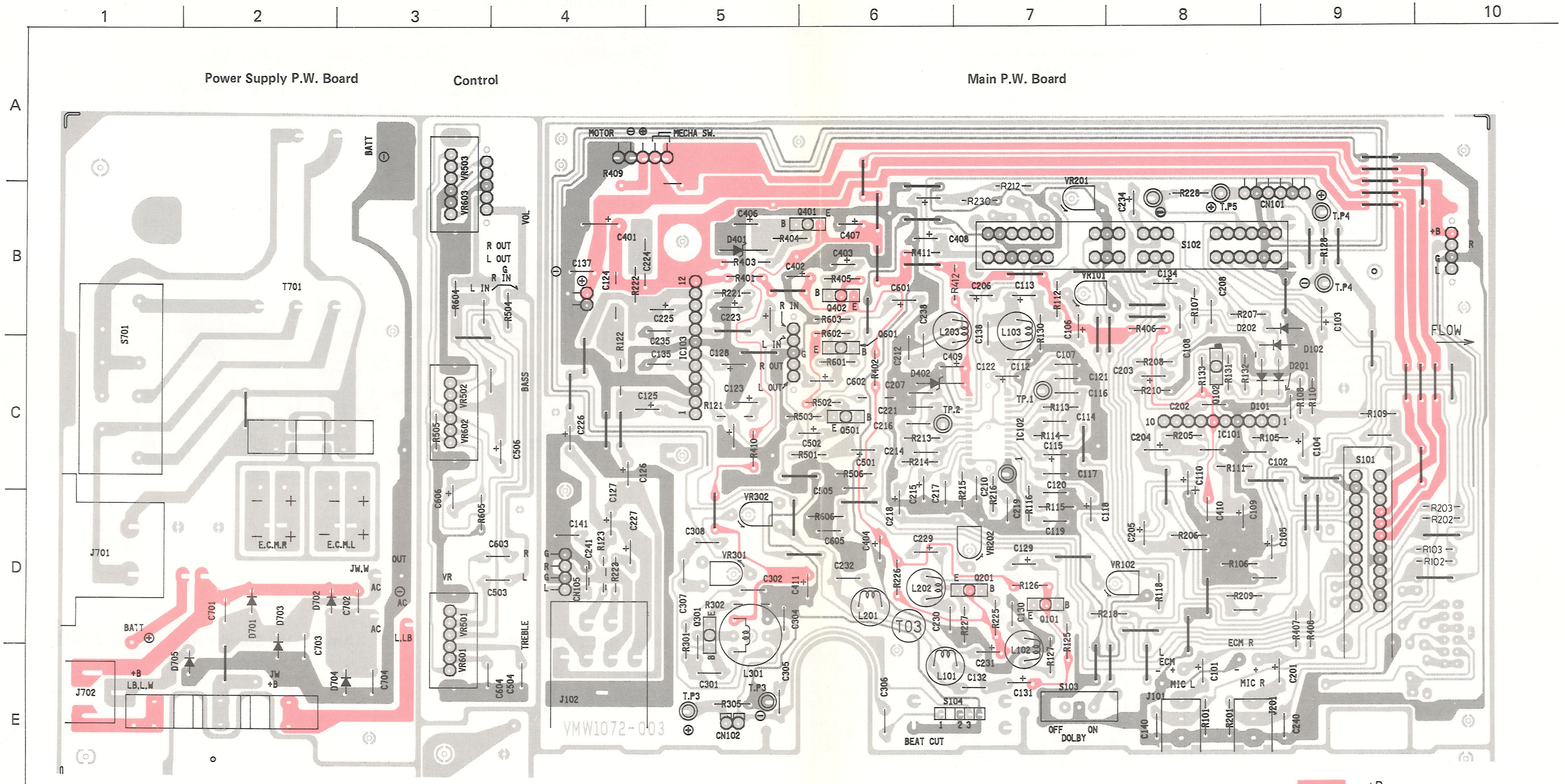

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
Power Supply P.W. Board
Control
Main P.W. Board
T701
S701
J701
J702
BATT
E.C.M.R
E.C.M.L
JW.W
AC
OUT
L.LB
+B
LB,L,W
C701
C702
C703
C704
D701
D702
D703
D704
D705
VR503
VR603
VOL
R OUT
L OUT
G
R IN
L IN
R604
R504
VR502
VR602
R505
BASS
C506
C606
R605
C603
C503
VR
VR501
VR601
TREBLE
C604
C504
MOTOR
MECHA SW.
R409
C401
C406
Q401
D401
R404
R403
R401
C407
C403
R405
C402
Q402
C408
R411
C601
R603
R602
Q601
R601
C602
R502
Q501
R503
C502
R501
C501
R506
R606
C605
C505
VR302
VR301
C302
C411
C308
C307
R302
Q301
R301
C301
L301
C305
C304
C306
T.P3
R305
CN102
J102
VMW1072-003
C137
C124
R222
C224
C225
C223
C235
C135
C128
IC103
R122
R121
C125
C123
C226
C127
C126
C141
C241
R123
R223
C227
CN105
R212
R230
VR201
C234
R228
T.P5
CN101
T.P4
S102
R128
C134
VR101
C206
C113
L203
L103
R130
C136
C236
C409
D402
C207
C221
C216
C214
R213
R214
TP.2
TP.1
IC102
C212
R412
R402
R410
C218
C215
C217
R215
C210
R216
C219
R116
R115
C119
C120
C117
C118
C229
VR202
C129
C232
C404
R226
L202
Q201
R126
Q101
L201
T03
C230
R227
R225
C130
L102
R127
R125
L101
C231
C132
C131
S104
BEAT CUT
S103
OFF
ON
DOLBY
R112
C106
C107
C122
C112
C121
C116
R113
C114
R114
C115
R406
R107
C208
R207
D202
C103
D102
D201
C108
R208
R210
C203
R133
Q102
R131
R132
R109
R110
D101
C202
10
IC101
1
R205
R105
C204
C104
R111
C102
C110
C410
C109
C105
R206
R106
VR102
R209
R118
R218
S101
R109
R203
R202
R103
R102
ECM R
ECM L
MIC L
MIC R
C101
C201
R407
R408
J101
R101
R201
J201
C240
C140
FLOW
+B
G
R
L
+B
Earth

Fig. 24

Amplifier P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks
[VMW		Amp. P.W.B.		
S101-1 ~ 8		QSL8210-104	Lever Switch	Radio/Tape
S102-1 ~ 12		QSSC201-106	Slide Switch	Play/Rec
S103		QSS1201-026	〃	Dolby ON/OFF
S104		QSS1301-101G	〃	Beat Cut
VR101,201		QVP8A0B-033	V. Resistor	Level Adjust (P) 3 kΩ
VR102,202		〃 -014	〃	〃 (R) 10 kΩ
VR301,302		〃 -054	〃	Bias Adjust 50kΩ
CN101		QMV5004-006	Connector	
CN102		QMV5005-002	〃	
CN103		QMV5004-002	〃	
CN104		〃 -005	〃	
CN105		〃 -004	〃	
J101,201		QMS3501-016	Mic Jack	
J102		QMS6312-012	Head Phone Jack	
IC101		M51544L	IC	PRE. Amp
IC102		BA1102F	〃	Dolby Amp
IC103		TA7232P	〃	Power Amp
Q101,201		2SC1684(R,S)	Transistor	
Q102		2SC536(H)	〃	
Q301		2SC1684(R,S)	〃	
Q402		〃	〃	

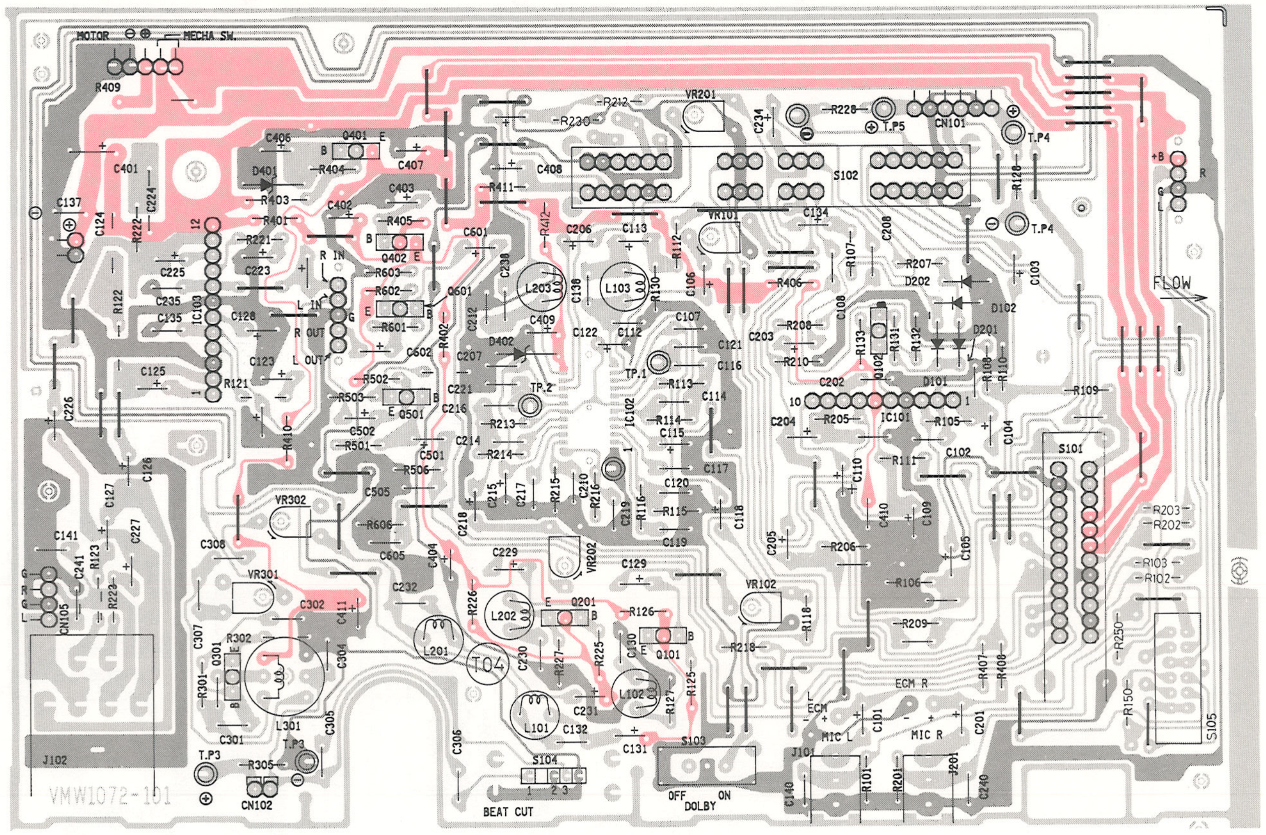
⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
Q401	2SC1317(R,S)	〃		1
D101,201	MA165	Si. Diode		2
D102,202	〃	〃		2
D401,402	HZ6C3	Zener Diode		2
L101,201	VQP0001-473S	Inductor		2
L102,202	VQP0001-472S	〃		2
L103,203	VQP0001-562SV	〃		2
L301	VQH1009-026	OSC Coil		2
C101,201	QET41HR-104	E. Capacitor	1 μF 50 V	2
C102,202	QCY41HK-122	C. Capacitor	0.0012 μF	2″
C103,203	QET41HR-475	E. Capacitor	4.7 μF 〃	2
C104,204	QET41AR-107	〃	100 μF 10 V	2
C105,205	QET41ER-226	〃	22 μF 25 V	2
C106,206	〃 -106	〃	10 μF 〃	2
C107,207	QCY41HK-102	C. Capacitor	0.001 μF 50 V	2
C108,208	QFV41HJ-683	T.F. Capacitor	0.068 μF 〃	2
C109	QET41AR-476	E. Capacitor	47 μF 10 V	1
C110	QET41ER-226	〃	22 μF 25 V	1
C111	QET41AR-227	〃	220 μF 10 V	1
C112,212	QCY41HK-682	C. Capacitor	0.0068μF 50 V	2
C113,213	QET41ER-106	E. Capacitor	10 μF 25 V	2
C114,214	QFN41HJ-472	M. Capacitor	0.0047μF 50 V	2
C115,215	QET41ER-475	E. Capacitor	4.7 μF 25 V	2
C116,216	QFV41HP-333	T.F. Capacitor	0.033 μF 50 V	2
C117,217	QCC11EM-103	C. Capacitor	0.01 μF 25 V	2
C118,218	QET41ER-475	E. Capacitor	4.7 μF 〃	2
C119,219	QET41HR-104	〃	0.1 μF 50 V	2
C120,220	QEB41HM-334	L.L.E. Capacitor	0.33 μF 〃	
C121,221	QCY41HK-102	C. Capacitor	0.001 μF 〃	2
C122	QET41ER-226	E. Capacitor	22 μF 25 V	1
C123,223	QET41ER-106	〃	10 μF 〃	2
C124,224	QCC11EM-154	C. Capacitor	0.15 μF 〃	2
C125,225	QET41AR-336	E. Capacitor	33 μF 10 V	2
C126,226	QET41AR-477	〃	470 μF 〃	2
C127,227	QET41HR-335	〃	3.3 μF 50 V	2
C128	QET41ER-106	〃	10 μF 25 V	1
C129,229	QET41HR-105	〃	1 μF 50 V	2
C130,230	QFV41HJ-333	T.F. Capacitor	0.033μF 〃	2
C131,231	QET41HR-105	E. Capacitor	1 μF 〃	2
C132,232	QCS11HJ-121	C. Capacitor	120 pF 〃	2
C134,234	QET41HR-335	E. Capacitor	3.3 μF 〃	2
C135,235	QCY21HK-471	C. Capacitor	470 pF 50 V	2
C136,237	QCS11HJ-151	〃	150 pF 〃	2
C138,238	QCY11HK-102	〃	0.001 μF 〃	2
C139,239	〃 -101	〃	100 pF 〃	2
C140,240	QCC11EM-223	〃	0.022μF 25 V	2
C141,241	QCS11HJ-101	〃	100 pF 50 V	2
C301	QCY41HK-272	〃	0.0027μF 〃	1
C302	QCC11EM-223	〃	0.022μF 25 V	1
C304	QFN41HJ-273	M. Capacitor	0.027μF 50 V	1
C305	QCY41HK-682	C. Capacitor	0.0068μF 〃	1
C306	QCY41HJ-682	〃	〃 〃	1
C307,308	QCS11HJ-301	〃	300 pF 〃	2
C401	QET41CR-228	E. Capacitor	2200 μF 16 V	1
C402	QET41AR-108	〃	1000 μF 10 V	1
C403	〃 -476	〃	47 μF 〃	1
C404	〃 -107	〃	100 μF 〃	1
C406	〃 -477	〃	470 μF 〃	1
C407	〃 -337	〃	330 μF 〃	1
C408	〃 -107	〃	100 μF 〃	1
C409	〃 -107	〃	〃 〃	1
C410	〃 -337	〃	330 μF 〃	1
C411	〃 -227	〃	220 μF 〃	1
——	QRD161J-xxx	Carbon Resistor	— 1/6 W	69
R403	QRD141J-100	Fusible Resistor	1 Ω 1/4 W	1

Other P.W. Board Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
<VMW1068-001B> P.W. Board (for ST. IND)				
D3	LN224RP	LED		1
<Tone Control Ass'y> VMW1064-00XB P.W. Board				
VR501,601	QVN5A2A-054M	V. Resistor	Treble 50 kΩ	2
VR502,602	QVN5A2D-024M	〃	Bass 20 kΩ	2
VR503,603	QVN5A2A-054M	〃	Volume 50 kΩ	2
Q501,601	2SC1684(R,S)	Transistor		2
C501,601	QET41HR-105	E. Capacitor	1 μF 50 V	2
C502,602	〃 -105	〃	〃 〃	2
C503,603	QCY41HK-682	C. Capacitor	0.0068μF 〃	2
C504,604	QCC11EM-333	〃	0.033μF 25 V	2
C505,605	QCY41HK-222	〃	0.0022 μ 50 V	2
C506,606	QET41HR-154	〃	0.15 μF 〃	2
R501,601	QRD161J-224	C. Resistor	220 kΩ 1/6 W	2
R502,602	〃 -222	〃	2.2 kΩ 〃	2
R503,603	〃 -221	〃	220 Ω 〃	2
R504,604	〃 -103	〃	10 kΩ 〃	2
R505,605	〃 -222	〃	2.2 kΩ 〃	2
R506,606	〃 -472	〃	4.7 kΩ 〃	2
<Power Supply Ass'y> VMW1064-00XC P.W. Board				
D701,702	10E2	Si. Diode		2
D703,704	〃	〃		2
C701,702	QCF11HP-223	C. Capacitor	0.022μF 50 V	2
C703,704	〃 -223	〃	〃 〃	2
D705	11E2	Si. Diode		1
J701	- QMC0263-002	AC. Socket	LD/L	1
〃	- 〃 -002UBS	〃	LB	1
J702	QMA0921-005	DC Jack		1
S701	- QSS2325-107BS	Slide Switch	LB	1
〃	- 〃 -107	〃	L	
	VND4003-037	Fuse Label		
	VYH5422-001	Barrier	LB	

Amp. P.W. Board (RC-770LD/LS)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R409
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CN101
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T.P4
S102
VR101
FLOW
D202
D102
D201
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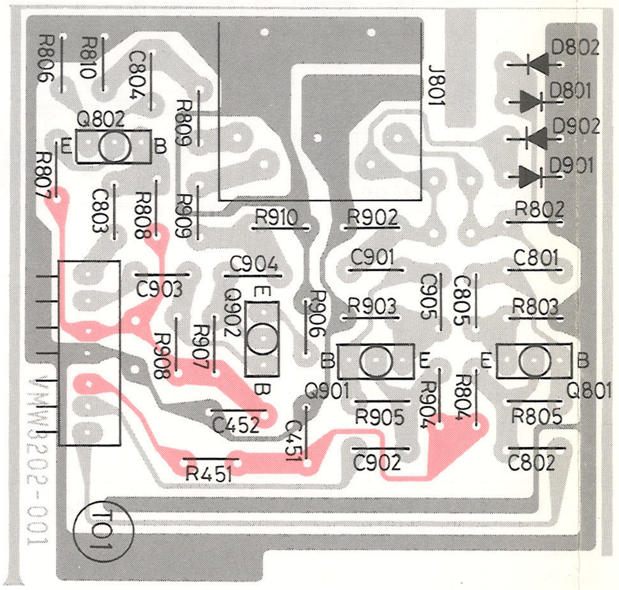
IC101
IC102
IC103
S101
VR102
VR302
VR301
VR202
L101
L102
L103
L201
L202
L203
L301
T01
Q101
Q201
Q401
Q402
Q501
Q601
Q602
T.P1
T.P2
T.P3
CN102
S104
S103
S105
J101
J102
MIC L
MIC R
ECM R
ECM L
BEAT CUT
OFF ON DOLBY
R IN
L IN
R OUT
L OUT
VMW1072-101

Fig. 25

🟥 +B
▨ Earth

DIN P. W. Board (RC-770LD/LS)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R810
C804
J801
D802
D801
D902
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Q802
R809
R807
C803
R808
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R802
C904
C901
C801
C903
Q902
R906
R903
C905
C805
R803
R908
R907
Q901
R904
Q801
C452
R905
R805
C451
C902
C802
R451
T01
VMW1202-001

🟥 +B
▨ Earth

DIN P. W. Board (RC-770LD/LS)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
J801	QMC9014-006	DIN Jack Ass'y		1
Q801,901 802,902	2SC1843 (F)	Transistor		4
D801,901 802,902	MA165	Si. Diode		4
R802,902	QRD144J-103S	C. Resistor	10 kΩ 1/4 W	2
R803,903	〃 -181S	〃	180 Ω 〃	2
R804,904	〃 -332S	〃	3.3 kΩ 〃	2
R805,905	〃 -155S	〃	1.5 MΩ 〃	2
R806,906	〃 -151S	〃	150 Ω 〃	2
R807,907	〃 -332S	〃	3.3 kΩ 〃	2
R808,908	〃 -225S	〃	2.2 MΩ 〃	2
R809,909	〃 -472S	〃	4.7 kΩ 〃	2
R810,910	〃 -224S	〃	220 kΩ 〃	2
R451	〃 -222S	〃	2.2 kΩ 〃	1
C801～804 901～904	QET41HR-105	E. Capacitor	1 μF 50 V	8
C805,905	QCS11HJ-471	C. Capacitor	470 pF 〃	2
C451	QET41AR-476	E. Capacitor	47 μF 10 V	1
C452	〃 -107	〃	100 μF 〃	1
CN801	QMV5004-007	Connector		1

Amp. P.W. Board Parts List (RC-770LD/LS)

Refer to L/LB except for the following

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
S105	QST3101-V04	Push Switch	RADIO/DIN	1
C116,216	QFV41HJ-333	T.F. Capacitor	0.033μF 50 V	2
C117,217	〃 -103	〃	0.01 μF 〃	2
C118,218	QET41HR-475	E. Capacitor	4.7 μF 〃	2
C119,219	QFV41HJ-104	T.F. Capacitor	0.1 μF 〃	2
C120,220	〃 -333	〃	0.033μF 〃	2
C126,226	QETC1AM-477	〃	470 μF 〃	2
C139,239	QCS11HJ-101	〃	100 pF 〃	2
C304	QFV41HJ-273	〃	0.027μF 〃	1
C306	QCY41HK-821	C. Capacitor	820 pF 〃	1
C310	QET41CR-477	E. Capacitor	470 μF 16 V	1
C406	QETC1AM-477	〃	〃 10 V	1
C407	〃 -337	〃	330 μF 〃	1
C411	QET41AR-337	〃	〃 〃	1
R	QRD161J-xxx	C. Resistor	1/6 W	66
R409	QRD121J-1R0	〃	1 Ω 1/2 W	1

Tuner P.W. Board Parts and Parts List

1 2 3 4 5 6 7 8 9 10

A

B

C

D

RC-770LD/LS

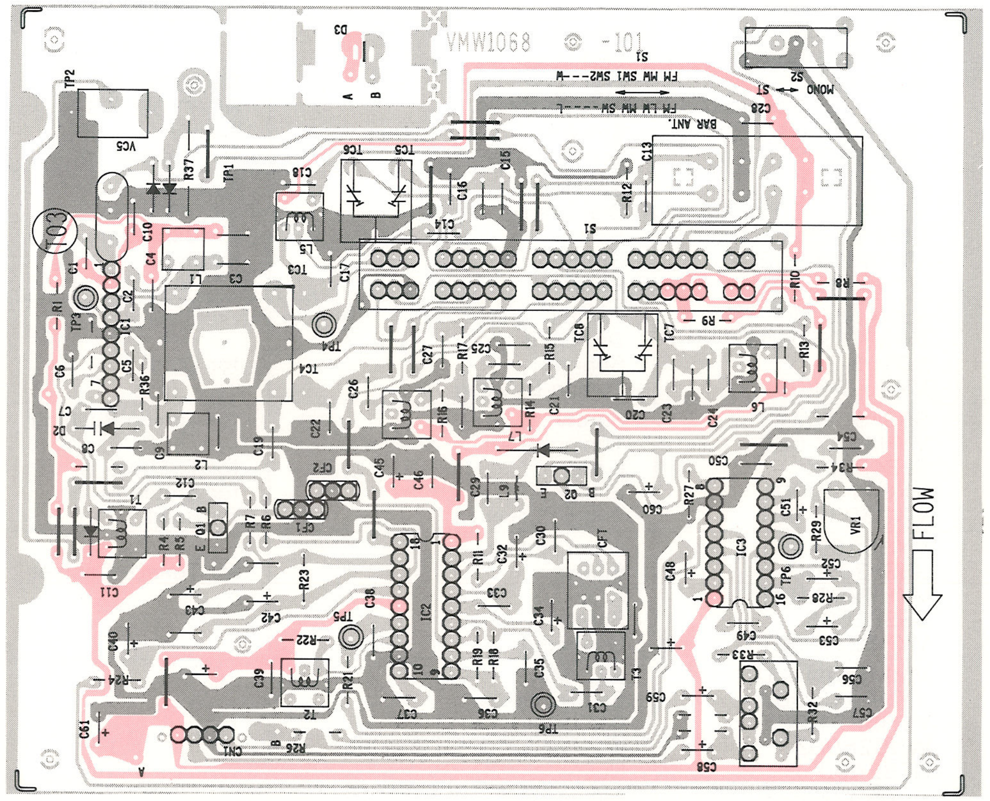

Fig. 26

🟥 +B

▨ Earth

RC-770L/LB

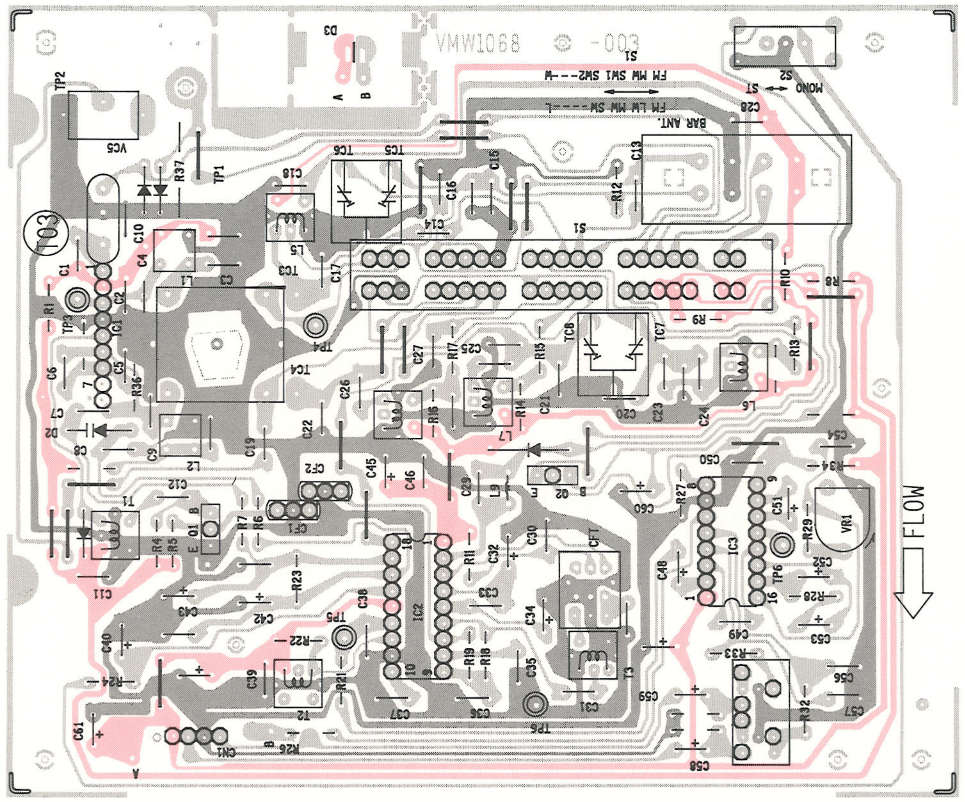

Fig. 27

🟥 +B

▨ Earth

Tuner P.W. Board Only Parts List (RC-770LD/LS)

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
L1	VQF1B12-001	RF Coil	(FM)	1
L2	V03105-029	OSC Coil	〃	1
IC1	TA7358A	IC		1
R1	QRD161J-101	C. Resistor	100 Ω 1/6 W	1
R2	〃 -271	〃	270 Ω 〃	1
R3	〃 -393	〃	39 kΩ 〃	1
R4	〃 -334	〃	330 kΩ 〃	1
R16	〃 -561	〃	560 Ω 〃 (LD)	1
〃	〃 -102	〃	1 kΩ 〃 (LS)	1
R36	〃 -220	〃	22 Ω 〃	1
C1	QCS11HJ-180	C. Capacitor	18 pF 50 V	1
C2	〃 -150	〃	15 pF 〃	1
C3	〃 -220	〃	22 pF 〃	1
C4	QCY11HK-472	〃	0.0047μF 〃	1
C5	QCT05CH-100	〃	10 pF 〃	1
C6	〃 -200	〃	20 pF 〃 (LD)	1
〃	〃 -180	〃	18 pF 〃 (LS)	1
C9	QCT05CH-220	C. Capacitor	22 pF 50 V (LD)	1
〃	QCT05CH-150	〃	15 pF 〃 (LS)	1
C14	QCS11HJ-200	〃	20 pF 〃 (LD)	1
〃	〃 -470	〃	47 pF 〃 (LS)	1
C17	〃 -100	〃	10 pF 〃 (LD)	1
〃	〃 -8R0	〃	8 pF 〃 (LS)	1
C39	QCC11EM-473	〃	0.047μF 25 V	1
C62,63	QCF11HP-103	〃	0.01 μF 50 V	1
C64	QCT05CH-2R0	〃	2 pF 〃 (LD)	1
〃	〃 -3R0	〃	3 pF 〃 (LS)	1
D1	MA165	Diode		1
D2	1S553T	Variable Capacitor		1
D4	MA165	Diode	(LD)	1

Tuner P.W. Board Parts List (RC-770L/LB)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
VC-1 ~ 4	QAP1224-520V	V. Capacitor		4
TC-1 ~ 4				4
TC5,6,7,8	QAT2002-001	T. Capacitor		4
VC5	QAT5001-004	M.V. Capacitor		1
VR1	QVZ3512-103	V. Resistor		1
L1	VQF1B12-007	RF Coil	FM	1
L2	VQB1B10-001	OSC Coil	〃	1
L5	VQR7002-302	RF Coil	SW	1
L6	VQL7T19-301	OSC Coil	LW	1
L7	VQM7U01-301	〃	MW	1
L8	VQR7002-302	〃	SW	1
L9	V03047-21	Coil		1
L3,4	VQB012B-314	Ferrite Core Antenna Ass'y		2
T1	VQT7F12-104	IFT		1
T2	〃 -104	〃		1
T3	VQT7A11-203	IFT		1
CF1,2	VCF2L3B-301	C. Filter		2
CFT	VQT7A21-102	CFT		1
BPT	VBP4M3B-001	Band Pass Filter		1
LPF	VQZ0020-001	Low Pass Filter		1
IC1	AN7213	IC		1
IC2	AN7222N	〃		1
IC3	AN7410N	〃		1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
Q1	2SC1359(C)	Si. Transistor		1
Q2	2SC828(Q,R)	″		2
D1	MA165	Si. Diode		2
D2	1S553T	Vari. Capacitor		1
S1-1 ~ 8	QSS8401-101	Slide Switch		8
S2	QSS1201-026	″		1
C1	QCS11HJ-100	C. Capacitor	10 pF 50 V	1
C2	QCF11HP-223	″	0.022μF ″	1
C3	QCS11HJ-240	″	24 pF ″	1
C5	QCT05CH-150	″	15 pF ″	1
C6	″ -5R0	″	5 pF ″	1
C7	QCT05UJ-5R0	″	5 pF ″	1
C8	QCF11HP-103	″	0.01 μF ″	1
C9	QCT05CH-150	″	15 pF ″	1
C10	QCY11HK-472	″	0.0047μF ″	1
C11	QCF11HP-223	″	0.022μF 50 V	1
C12	″ -103	″	0.01 μF ″	1
C14	QCS11HJ-470	″	47 pF ″	1
C15	″ -390	″	39 pF ″	1
C16	″ -120	″	12 pF ″	1
C17	″ -8R0	″	8 pF ″	1
C18	″ -100	″	10 pF ″	1
C19	″ -470	″	47 pF ″	1
C20	″ -270	″	27 pF ″	1
C21	QCT05WK-120	″	12 pF ″	1
C22	″ -8R0	″	8 pF	1
C23	QCS11HJ-150	″	15 pF 50 V	1
C24	QFP42AJ-151	P.P. Capacitor	150 pF	1
C25	″ -361	″	360 μF	1
C26	″ -392	″	0.0039 μF	1
C27	QCS11HJ-150	C. Capacitor	15 pF 50 V	1
C28	QCF11HP-223	″	0.022μF 50 V	1
C29	QCS11HJ-7R0	″	7 pF ″	1
C30	QCC11EM-223	″	0.022μF ″	1
C31	QCF11HP-103	″	0.01 μF ″	1
C32	QET41AR-476	E. Capacitor	47 μF 10 V	1
C33	QEN41EM-475	″	4.7 μF 25 V	1
C34	QET41HR-105	″	1 μF 50 V	1
C35,36	QCF11HP-223	C. Capacitor	0.022μF ″	2
C37	QCC11EM-223	″	″ 25 V	1
C38	QCS11HJ-121	″	120 pF 50 V	1
C39	QCC11EM-223	″	0.022μF 25 V	1
C40,42,43	QET41ER-106	E. Capacitor	10 μF ″	3
C45	QET41AR-476	″	47 μF 10 V	1
C46	QCF11HP-223	C. Capacitor	0.022μF 50 V	1
C48	QET41HR-105	E. Capacitor	1 μF ″	1
C49	QCC11EM-473	C. Capacitor	0.047μF 25 V	1
C50	QCF11HP-223	″	0.022μF 50 V	1
C51 ~ 53	QET41HR-474	E. Capacitor	0.47 μF ″	1
C54	QFP42AJ-471	P.P. Capacitor	470 pF	1
C56,57	QCC11EM-153	C. Capacitor	0.015μF 25 V	2
C58,59	QET41HR-475	E. Capacitor	4.7 μF 50 V	2
C60	″ -105	″	1 μF ″	1
C61	QET41AR-477	″	470 μF 10 V	1
C63	QCT05CH-3R0	″	3 pF 16 V	1
CN1	E04365-004	Connector		1
R1	QRD161J-101	C. Resistor	100 Ω 1/6 W	1
R2	″ -271	″	270 Ω ″	1
R3	″ -393	″	39 kΩ ″	1
R4	″ -184	″	180 kΩ ″	1
R5	″ -471	″	470 Ω ″	1
R6	″ -104	″	100 kΩ ″	1
R7	″ -104	″	″ ″	1
R8	″ -470	″	47 Ω ″	1
R9	″ -470	″	″ ″	1
R10	″ -101	″	100 Ω ″	1
R11	QRD161J-470	C. Resistor	47 Ω 1/6 W	1
R12	″ -224	″	220 kΩ ″	1
R13	″ -680	″	68 Ω ″	1
R15	″ -680	″	″ ″	1
R16	″ -102	″	1 kΩ ″	1
R17	″ -470	″	47 Ω ″	1
R18	″ -332	″	3.3 kΩ ″	1
R19	″ -471	″	470 Ω ″	1
R21	″ -471	″	″ ″	1
R22	″ -392	″	3.9 kΩ ″	1
R23	″ -222	″	2.2 kΩ ″	1
R24	″ -273	″	27 kΩ ″	1
R26	″ -471	″	470 Ω ″	1
R27	″ -103	″	100 kΩ ″	1
R28	″ -102	″	1 kΩ ″	1
R29	″ -183	″	18 kΩ ″	1
R32,33	″ -222	″	2.2 kΩ ″	2
R34	″ -153	″	15 kΩ ″	1

Enclosure Assembly and Electrical Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
1 ~ 2		ZCRC770Y-CBF	Front Cabinet Ass'y		1
1		VJC1289-010A	Front Cabinet	RC-770L/LB	1
″		″ -104	″	RC-770LD/LS	1
2		VJD3409-001	Punching Panel		2
3		VJD3410-001	Control Plate		1
4		VJK3211-004	Dial Scale	RC-770L/LB/LS	1
″		″ -003	″	RC-770LD	1
5		VJD3411-001	Control Plate		1
6		VJD3412-001	LED Lens		1
7		VJK3210-002	Dial Lens	RFC-770L/LB	1
″		″ -001	″	RC-770LD/LS	1
8		HSA1299-01D	Speaker	Woofer	2
9		SBSF3008Z	Screw	for Speaker	8
10		EFB-S77D41	Speaker	Tweeter	2
11		VYH4832-002	Dial Dram		1
12		GBSF3020Z	Screw	for Dial Dram	1
13		VYH4034-002	Stud	for Roller	2
14		VYH4032-001	Roller		2
15		VJN4081-001	Pointer		1
16		VHR2TK9-05AT	Dial Cord		1 set
17		50153-3	Spring	for Cord	1
18		VYH5270-001	Tuning Bushing		1
19		SBSF3010Z	Screw	for Tuning Bushing	2
20		VYH4027-006	Tuning Shaft		1
21		REE4000X	E-ring	for T. Shaft	1
22		VXS4109-001	Slide Knob	for Stereo-Mono	1
23		VXQ3038-001	Toggle Lever	for Band	1
24		VYH5269-001	Lever Holder		1
25		SBSF3020C	Screw	for Tuner ~ Cabinet	5
26		VYH5267-001	Arm		1
27		SSSP2608	Screw		1
28		VYH5274-001	Connector		1
29		VMME62N-031	E.C. Mic		2
30		VYH4043-002	Special Screw		1
31		VYH5271-001	Rec Lever		1
32		WNS2600Z	Washer		2
33		NTB2600	Nut		1
34		VYH4348-001	Mic Busing		2
35		VYH5268-001	Bridge		4
36		SBSF3014Z	Screw		3
37		VXQ4058-001	Lever Cap	Tap ⟷ Radio	1
38		VXQ4109-001	Slide Knob	Dolby	1
39		SPSP3006C	Screw	Mecha ~ Amp	1
40		WBS3000	T. Lock Washer		1
41		SBSF3010C	Screw	Mecha ~ Cabinet	6
42		″	″	Amp ~ Cabinet	3
43	⚠	VTP48N2-90F	Power Trans.	T701 RC-770L/LD/LS	1
	⚠	VTP48C2-90FBS	″	T701 RC-770LB	1
44	⚠	QMF51A2-R80	Fuse	RC-770L/LD/LS	1
	⚠	″ -R80BS	″	RC-770LB	1
45-1		SBSF3014Z	Screw	Power P.W.B.	1
45-2		GBSF3020C	″	Power Transformer	2
46		VJC1290-104	Rear Cabinet	RC-770L/LB	1
″		″ -105	″	RC-770LD/LS	1
47		VJA3006-00C	Telescopic Antenna		1
48		VYH5278-001	Ant Contact		1
49		SDSP3012R	Screw	for Antenna	1
50		VJH4036-00C	Handle Ass'y		1
51		VYSS2R3-002	Spacer	for Handle	2
52		VYH4696-001	Spring	″	2
53		VYH5279-001	Battery Spring		1
54		VYH5280-002	Battery Contact		1
55		SBSF3020R	Screw	Front ~ Rear	7
56		VJC2016-006	Battery Cover		1
57		VYSH108-016	Spacer	for Battery Cover	1
58		VYN5089-009	Name Plate	RC-770LB	1
″		″ -007	″	RC-770LD/LS	1
″		″ -011	″	RC-770LS	1
59		VJT3115-00A	Door Ass'y		1
60		VYH4941-002	Door Spring		1

Enclosure Assembly and Electrical Parts

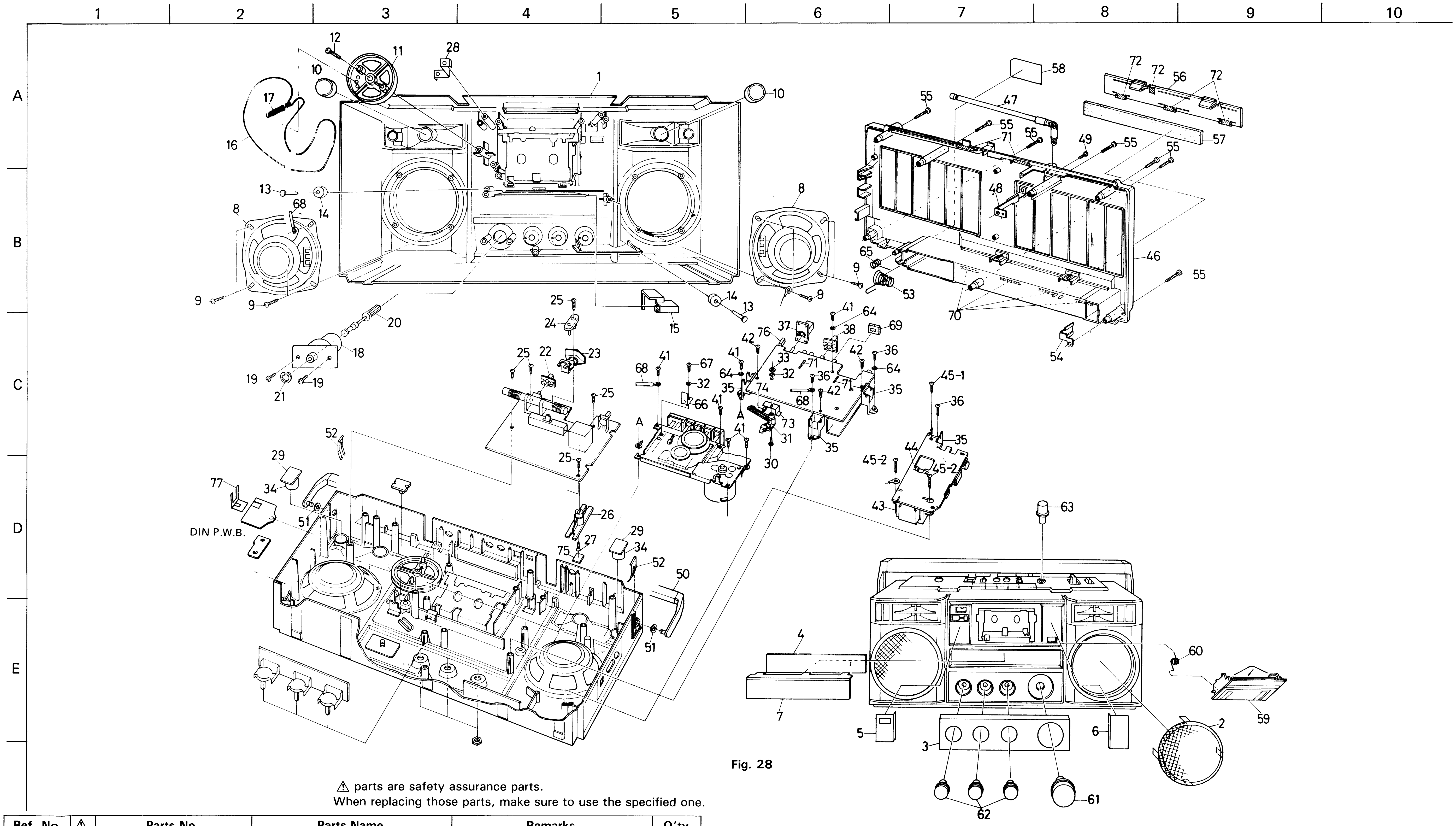
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Fig. 28

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
61		VXL4193-001	Tuning Knob		1
62		VXL4107-101	Knob		3
63		VXL4194-001	Fine Knob		1
64		QO3095-206	Washer		3
65		VYH5381-001	Spring Connector		1
66		VYH5276-001	Rec. Spring Plate		1
67		LPSP2604Z	Screw		1
68		VKZ4001-010	Wire Holder		3
69		VYTH417-001	Blind		1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
70		VYSA1R4-050	Spacer		4
71		〃 -030	〃		3
72		VYSA1R6-034	〃		4
73		VYH5402-001	Shield		1
74		VYSH103-016	Spacer		1
75		VYSH104-022	〃		1
76		VXP4378-001	Push Knob	RC-770LD	1
77		VYH5472-001	Bracket	〃 for DIN Jack	1

Mechanism Component Parts

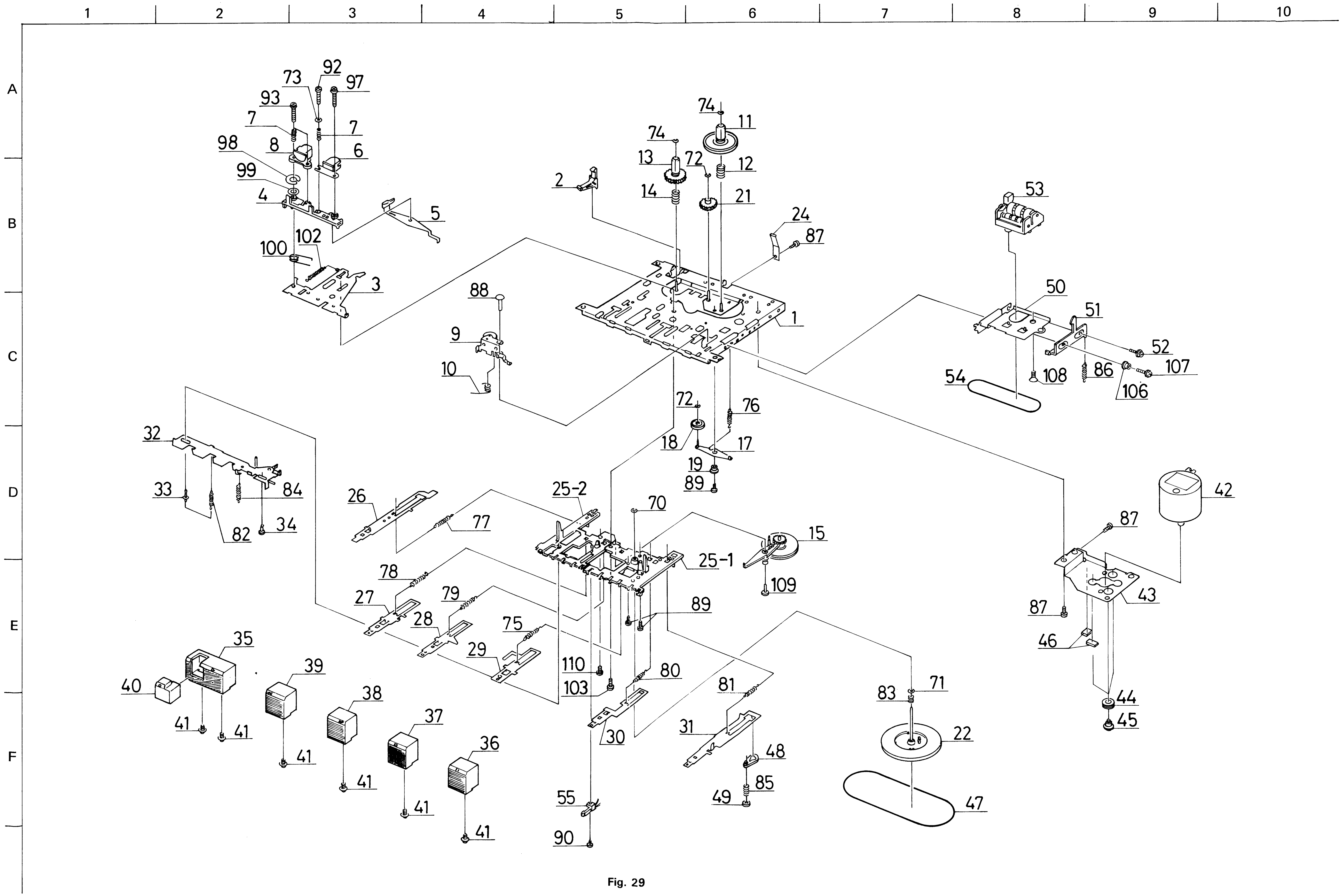
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Fig. 29

Mechanical Component Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
1		180001501ZT	Mecha. Chassis Ass'y		1
2		18000201T	Rec. Safety Lever		1
3		18000316T	Head Panel		1
4		18000305T	Head Base		1
5		180003305ZT	Detector Plate Ass'y		1
6		VGH0421-010	R/P Head		1
7		14400315T	Head Spring		2
8		V03078-046	E. Head		1
9		180004301ZT	Pinch Roller Arm Ass'y		1
10		18000405T	Pinch Roller Spring		1
11		180005301ZT	Take-up Reel Ass'y		1
12		18000508T	Back Tension Spring		1
13		180005302ZT	Supply Reel Ass'y		1
14		18000516T	Back Tension Spring		1
15		180006310ZT	RF. Cluth Ass'y		1
17		180006503ZT	Take-up Roller Arm Ass'y		1
18		18000635T	Take-up Roller		1
19		18000609T	Collar		1
21		18000610T	F.F. Gear		1
22		180007312ZT	Flywheel Ass'y		1
24		15100134T	Pack Spring		1
25-1		18000934	Button Base (R)		1
25-2		18000935B	〃 (L)		1
26		18000902T	Rec. Button Lever		1
27		18000904T	Play Button Lever		1
28		18000906T	Rew. Button Lever		1
29		18000908T	F.F. Button Lever		1
30		18000909T	Stop Button Lever		1
31		180009501ZT	Pause Button Lever Ass'y		1
32		180009310ZT	Lock Plate Ass'y		1
33		17000921T	Lock Plate Boss		1
34		18000917T	〃		1
35		VXP3081-001	Push Button	for Play	1
36		VXP3082-001	〃	for Pause	1
37		〃 -002	〃	for Stop/Eject	1
38		〃 -003	〃	for F.F.	1
39		〃 -004	〃	for Rew.	1
40		VXP3083-002	〃	for Rec.	1
41		18000918T	Flange Cup Screw		6
42	⚠	180010327ZT	Motor Ass'y		1
43		18001033T	Motor Bracket		1
44		5880910T	Rubber Cushion		3
45		12001201T	Collar Screw (S)		3
46		15221202T	Mat		2
47		4081203T	Main Belt		1
48		12221702T	Pause Lever		1
49		18201032T	Pause Stopper		1
50		18001310T	Counter Bracket		1
51		18001102T	Eject Slide Lever		1
52		17000310T	Collar Screw		1
53		VKC5169-001S	Tape Counter		1
54		2111202T	Counter Belt		1
55		LSA-1120C01T	Leaf Switch		1
70		97870000T	Polyslider Washer	for Capstan (ϕ1.55×ϕ5×t0.5)	1
71		97760000T	〃	for Capstan (ϕ2.05×ϕ8×t0.5)	1
72		94210000T	Polyslider Washer	for Take-up Roller×1, for F.F. Gear×1 (ϕ1.2×ϕ3×t0.25)	2
73		15601501T	Washer	R/P Head (ϕ2.1×ϕ5×t0.4)	1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
74		16100604T	Polyslider Washer	for Supply Reel Ass'y × 1 for Take-up Reel Ass'y × 1 (ϕ1.6 × ϕ3.8 × t0.3)	2
75		18000907T	Spring	for FF Button	1
76		18000608T	″	for Take-up Roller Arm	1
77		18000903T	″	for Rec. Button	1
78		18000957T	″	for Play Button	1
79		18000905T	″	for Rew. Button × 1	1
80		18000903T	″	for Stop Button	1
81		18000957T	″	for Pause Button	1
82		18000919T	″	for Lock Plate	1
83		18000707T	″	for Thrust Spring	1
84		18000961T	″	for Auto Lever	1
85		18000958T	″	for Pause Lever	1
86		18001128T	″	for Eject Slide Lever	1
87		20PZ26040T	Tap. Screw	for Peak Spring × 1, Mat × 2	3
88		17152015T	Stopper	for Pinch Roller Arm Ass'y	1
89		SPSD2004Z	TH. Tap. Screw	for Take-up Roller × 1, Button Base × 2	3
90		SPSF2006Z	Tap. Screw	for Leaf Switch	1
92		SPSX2007Z	PM. Screw	for R/P Head	1
93		98210000T	Screw		2
97		98200000T	Cap Screw	for R/P Head	1
98		13270412AT	U Washer	for E. Head	1
99		93330000T	Washer	for E. Head (ϕ2.4 × ϕ7 × t0.2)	1
100		18001404T	RC Spring	″	1
102		18000309T	Spring (B)	for Head Panel	1
103		98610000T	TH. Tap. Screw	Button Base	1
106		18001127T	Collar	for Eject Slide Lever	1
107		SPSD3008Z	TH. Tap. Screw		1
108		SSSP3006Z	Screw		1
109		18000629T	RF. Pulley Arm Stopper		1
110		97180000T	Collar Screw	for Button Base	1

Packing

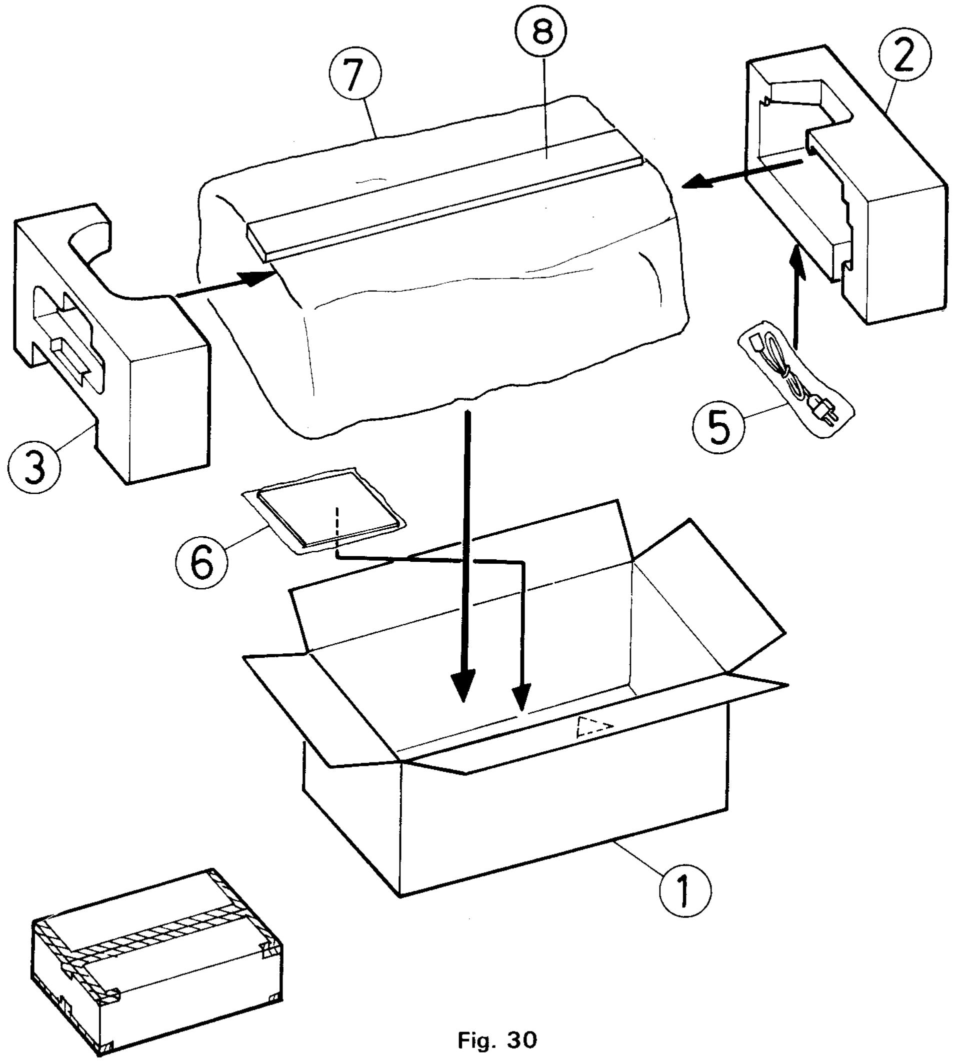

Fig. 30

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD5089-J01	Carton	RC-770LB	1
	〃 -J04	〃	RC-770L	1
	〃 -J08	〃	RC-770LD	1
	〃 -J10	〃	RC-770LS	1
2	VPH1269-001	Side Cushion (L)		1
3	VPH1270-001	〃 (R)		1
5	QPGA012-01505	Poly Bag	for Power Cord	1
6	QPGB017-02404	〃	for Instruction Book	1
7	VPE3002-008	〃	RC-770LB	1
	QPGA070-04005	〃	RC-770L/LD	1
8	VPH4101-006	Door Protector		1

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VNM0906-301	Instruction Book	RC-770L/LB	1
VNF0903-001	Feature Tag	RC-770L/LB	1
VNF0904-001	〃	RC-770LD	1
BT20013C	Guarantee Certificate	RC-770LB	1
QMP3950-183	Power Cord	RC-770L/LD	1
QMP9017-009BS	〃	RC-770LB	1
QZL1002-003	Warning Label	RC-770LB	1
31465-18	Mark	RC-770LB	1
VPZ4001-001	Serial Ticket		1
BT20054-003A	Caution Card	RC-770LD	1
BT20065	Warranty Card	〃	1
BT20066	〃	〃	1
VNM0906-302	Instruction Book	RC-770LD/LS	1
VGT12S2-J05	Cassette Tape	RC-770LS	1

VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city, Japan

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